

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Peter Juliff, Program Design, PHI Publications.
- Yashwant Kanetkar, Let us C: BPB Publications.
- E. Balaguruswamy, Programming in ANSI C, Tata McGraw Hill

Reference Books Recommended:

- Y. Kanetkar, Let us C++, B.P.B Publication .
- E. Balaguruswamy, Programming in C++, Tata McGraw Hill.
- R. Kumar, Object Oriented Programming with C++, Prakhar Publication(Hindi)
- Dhupiya, Lakhyani , C++ Programming Alka Publications, Ajmer (Paperback, Dhupiya, Lakhyani)(Hindi)

Online Resources:

- Introduction to C and C++ from SWAYAM/NPTEL
https://onlinecourses.nptel.ac.in/noc22_cs103/preview
<https://www.youtube.com/watch?v=KG4hjVDw-p8&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=2>
- Constant and Inline Function through NPTEL:
<https://www.youtube.com/watch?v=pX6LufLso2M&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=10>
- Pointer and Reference NPTEL
<https://www.youtube.com/watch?v=GtsBZ5e1-cE&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=12>
- Function Overloading NPTEL
<https://www.youtube.com/watch?v=uJGmGAShHeU&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=13>
- Operator Overloading NPTEL
<https://www.youtube.com/watch?v=0jpOwe4d-FE&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=17>
- Dynamic Memory Management NPTEL
<https://www.youtube.com/watch?v=lkFK2X6qIc0&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=18>
- Class and Object NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=24
- Access Specifiers NPTEL
https://www.youtube.com/watch?v=6ki_W7cXdM0&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=22
- Constructor and Destructor NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4yIk-B4KrM9uOEEdvPIVFUkU3jNc6D2&index=24
- C++ different topics from W3School
<https://www.w3schools.com/Cpp/default.asp>
- C++ different topics from Javatpoint
<https://www.javatpoint.com/cpp-tutorial>

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. Hoke
Chairman

Kum. Gaba

JG

Oral

AN

Sunil

SC
Suresh Thakur

SP
Sneha Anand

YMP

Anjita

Dr. Anand Kumar

Dr. Anand Kumar

ANJEETA KUMAR

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF INFORMATION SCIENCE
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science (CS) <i>(Certificate / Diploma / Degree)</i>		Semester - II	Session: 2024-2025
1	Course Code	CSSC-02P	
2	Course Title	Lab 2: Programming in C++	
3	Course Type	DSC	
4	Prerequisite	<i>As per program</i>	
5	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Understand the fundamental programming concepts and methodologies which are essential to create good C++ programs. • Code, test, and implement a well-structured, robust computer program using the C++ programming language. • Write reusable modules (collections of functions). • Understand design/implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing. • Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms. 	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field Learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
List of Practical Experiments.	<ol style="list-style-type: none"> 1. Write a program in C++ for addition of two numbers using float data type. 2. Write a program in C++ to find the biggest number between two numbers. 3. Write a program in C++ to find the factorial value of any entered number using do – while loop. 4. Write a program in C++ for various arithmetic operations using switch case statements. 5. Write a program in C++ for Multiplication of two 3X3 matrices. 6. Write a program in C++ to store five books of information using structure. 7. Write a program in C++ to store six employee information using union. 8. Write a program in C++ to calculate simple interest using call by value and call by reference method. 9. Write a program in C++ to find the sum and average of five numbers using class and objects. 10. Write a program in C++ to multiply two numbers using private and public member functions. 11. Write a program in C++ to print structure like this using scope resolution operator 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 12. Write a program in C++ for constructor and Destructor. 		30

13. Write a program in C++ for multiple inheritance.
14. Write a program in C++ for operator overloading.
15. Write a program in C++ for friend class and friend function.
16. Write a program in C++ for virtual function and virtual class.
17. Write a program in C++ for Exception Handling.
18. Write a program in C++ to open and close a file using file Handling.
19. Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.
20. WAP to display Fibonacci series (i) using recursion, (ii) using iteration
21. WAP to calculate Factorial of a number (i) using recursion, (ii) using iteration
22. WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion.
23. Create a Matrix class using templates. Write a menu-driven program to perform following Matrix Operations (2-D array implementation): a) Sum b) Difference c) Product d) Transpose
22. Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes (Use Runtime Polymorphism).
24. Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.
25. Create a class Box containing length, breadth and height. Include following methods in it: a) Calculate surface Area b) Calculate Volume c) Increment, Overload ++ operator (both prefix & postfix) d) Decrement, Overload -- operator (both prefix & postfix) e) Overload operator == (to check equality of two boxes), as a friend function f) Overload Assignment operator g) Check if it is a Cube or cuboid
26. Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.
27. Write a program to retrieve the student information from the file created in the previous question and print it in the following format: Roll No. Name Marks
28. Copy the contents of one text file to another file, after removing all whitespaces.
29. Write a program for exception handling.
30. Write a program to insert data into file and to display it.

Note: Concerned teacher can add additional practical exercises as per requirement.

Keywords Array, Function, Structure, union, matrix, constructor, destructor, inheritance.

Name and Signature of Convener & Members of CBoS:

Dr. H.S. Hota
Chairman

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]
Elores L. Thakur

[Signature]
Sheela Anand

[Signature]
11/06/24
Dr. V. K. Kulkarni

[Signature]
ANJEEETA KUMAR

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Peter Juliff, Program Design, PHI Publications.
- Yashwant Kanetkar, Let us C: BPB Publications.
- E. Balaguruswamy, Programming in ANSI C, Tata McGraw Hill

Reference Books Recommended:

- Y. Kanetkar, Let us C++, B.P.B Publication .
- E. Balaguruswamy, Programming in C++, Tata McGraw Hill.
- R. Kumar, Object Oriented Programming with C++, Prakhar Publication(Hindi)
- Dhupiya, Lakhyani , C++ Programming Alka Publications, Ajmer (Paperback, Dhupiya, Lakhyani)(Hindi)

Online Resources:

- Introduction to C and C++ from SWAYAM/NPTEL
https://onlinecourses.nptel.ac.in/noc22_cs103/preview
<https://www.youtube.com/watch?v=KG4hjVDw-p8&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=2>
- Constant and Inline Function through NPTEL:
<https://www.youtube.com/watch?v=pX6LufLso2M&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=10>
- Pointer and Reference NPTEL
<https://www.youtube.com/watch?v=GtsBZ5c1-cE&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=12>
- Function Overloading NPTEL
<https://www.youtube.com/watch?v=uJGmGAShHeU&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=13>
- Operator Overloading NPTEL
<https://www.youtube.com/watch?v=0jpOwe4d-FE&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=17>
- Dynamic Memory Management NPTEL
<https://www.youtube.com/watch?v=lkFK2X6qIc0&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=18>
- Class and Object NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- Access Specifiers NPTEL
https://www.youtube.com/watch?v=6ki_W7cXdM0&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=22
- Constructor and Destructor NPTEL
https://www.youtube.com/watch?v=wtuks_f3vP4&list=PLmp4ylk-B4KrM9uOEdvPIVFUkU3jNc6D2&index=24
- C++ different topics from W3School
<https://www.w3schools.com/Cpp/default.asp>
- C++ different topics from Javatpoint
<https://www.javatpoint.com/cpp-tutorial>

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):	Laboratory / Field Skill Performance: On spot Assessment 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	Managed by Course teacher as per lab. status
Name and Signature of Convener & Members:		
1. Dr. H.S. Hota 2. Dr. Swati Jain 3. Dr. Surendra Patel 4. Dr. S. K. Sahu 5. Mr. Prakash Kumar Tripathi 6. Dr. Anil Kumar Sahu 7. Mr. L.K. Gavel		

[Signature] [Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

[Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

ANJEETA KURUR

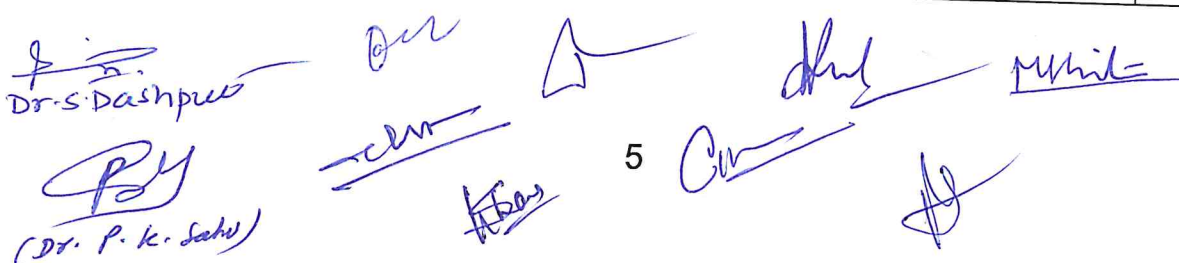
FOUR YEAR UNDER GRADUATE PROGRAM(2024-28)

DEPARTMENT OF MATHEMATICS

COURSE CURRICULUM

Part A: Introduction			
Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)		Semester - II	Session:2024-2025
1	Course Code	MASC-02	
2	Course Title	Algebra	
3	Course Type	Discipline Specific Course (DSC)	
4	Pre requisite	Knowledge of basic algebra , determinants and matrices.	
5	Course Learning Outcome (CLO)	This Course will enable the students to: <ul style="list-style-type: none"> ➤ Learn about the Matrix algebra. ➤ Understand Set theory, Function and Relation ➤ Learn about the theory of equations. ➤ Learn about the fundamental concepts of groups, Subgroups. ➤ Understand cosets and normal subgroups 	
6	Credit Value	4 C	1 Credit = 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	Matrix Algebra : Introduction, elementary operations of matrices, Inverse of a matrix. Special types of matrices: Transpose of a matrix, Symmetric and Skew symmetric matrices, Hermitian and Skew Hermitian matrix, Rank of a matrix, Echelon form of a matrix, Normal form, Application of matrices to a system of linear (both homogeneous and non-homogeneous) equations , Theorems on consistency of a system of linear equations. Eigen values and Eigen vectors, relation between Eigen values and Eigen vectors. Process of finding Eigen values and Eigen vectors, Cayley Hamilton theorem, and its use in finding inverse of a matrix.	15
II	Sets Theory & Functions: Sets, subsets Set operations and the laws of set theory and Venn diagrams. Examples of finite and infinite sets. Finite sets and counting principle. Empty set, properties of empty set. Standard set operations. Classes of a set. Power set of a set. Difference and symmetric difference of two sets. Set identities, Generalized union and intersection. Relations and Functions: Product set, Composition of relations, Types of relations, Partitions, Equivalence Relations with example of congruence modulo relation, Partial ordering relations. Function, Types of Function, Inverse Function, Composite of functions, Modular arithmetic and basic properties of congruences	15



5

III	Theory of equations: Symmetric functions of the roots of an equation Root of a multiplicity, Synthetic division, Greatest common Divisors, Relation between the roots and coefficients of general polynomial equations in one variable. Transformation of equations. Descarte's rule of signs. Solutions of cubic equations (Cardon method) , Biquadrate equation.	15
IV	Group Theory: Definition and properties of a group, Abelian groups, Examples of groups, Subgroups and examples, Cosets and their properties, Lagrange's theorem and its applications, Normal subgroups and their properties, Simple groups, Factors groups .	15

Part C - Learning Resource

Text Books, Reference Books, Other Resources

Text Books Recommended-

1. RamjiLal (2017). *Algebra 1: Groups, Rings, Fields and Arithmetic*. Springer.
2. Nathan Jacobson (2009). *Basic Algebra I* (2nd edition). Dover Publications
3. John B. Fraleigh (2007). *A First Course in Abstract Algebra* (7th edition). Pearson

Reference Books Recommended-

4. Michael Artin (2014). *Algebra* (2nd edition). Pearson.
5. Stephen H. Friedberg, Arnold J. Insel & Lawrence E. Spence (2003). *Linear Algebra* (4th edition). Prentice-Hall of India Pvt. Lt
6. Joseph A. Gallian (2017). *Contemporary Abstract Algebra* (9th edition). Cengage.
7. Kenneth Hoffman & Ray Kunze (2015). *Linear Algebra* (2nd edition). Prentice-Hall.
8. I. N. Herstein (2006). *Topics in Algebra* (2nd edition). Wiley India.

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

Part D: Assessment and Evaluation

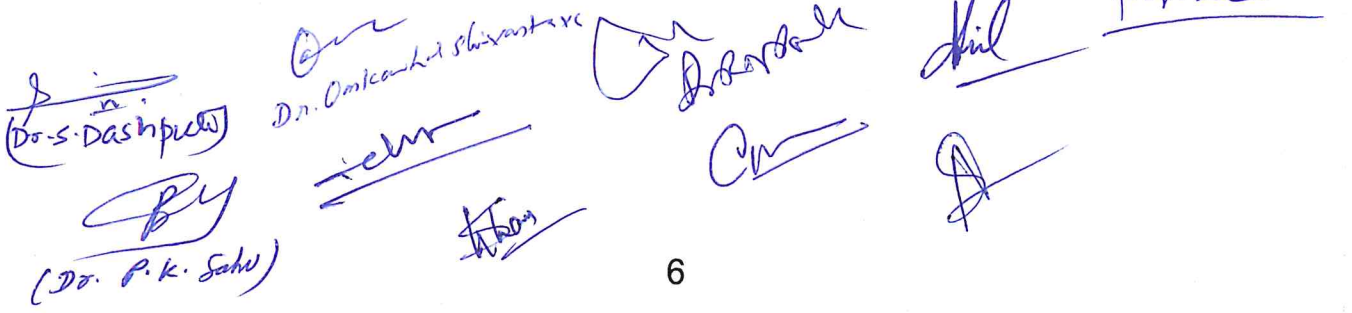
Suggested Continuous Evaluation Methods:

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 Assignment/Seminar- 10 Marks	Better marks out of two test/quiz + obtained marks in Assignment shall be considered against 30 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-

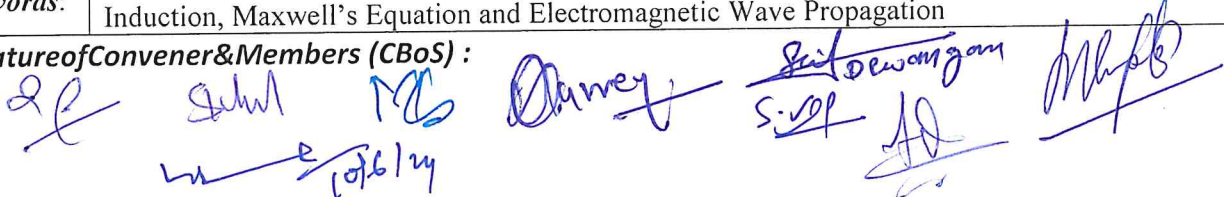


 (Dr. S. Dashpreet) Dr. Omkarshri Shrivastava [Signature] [Signature] [Signature] [Signature]

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

PART – A: INTRODUCTION			
Program: Bachelor in Science (Certificate/ Diploma/ Degree/ Honors)		Semester: II	Session: 2024-25
1	Course Code	PHSC-02T	
2	Course Title	ELECTRICITY AND MAGNETISM	
3	Course Type	Discipline Specific Course	
4	Pre-requisite (if any)	As per Program	
5	Course Learning Outcomes (CLO)	After going through the course, the student should be able to: <ul style="list-style-type: none"> ➤ State various laws related with electrostatics, dielectric, electric current, magnetism and electromagnetic induction. ➤ Apply vector (electric fields, Coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics. ➤ Compare rise and decay of current in LR, CR, LCR circuits. ➤ Apply Biot-Savart law for calculation of magnetic field in simple geographic situations. ➤ Derive and analyze Maxwell's equations. 	
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	Power plants in Chhattisgarh: An overview of thermal and hydroelectric power plants in Chhattisgarh. Vector Analysis: Divergence & Curl of Vector fields, Line, surface and volume integrals of Vector fields, Gauss-divergence theorem and Stoke's theorem of vectors and its application in electrostatics and magnetostatics. Electrostatics field: Electrostatic Field, electric flux, Gauss's theorem of electrostatics, Applications of Gauss theorem- Electric field due to point charge, infinite line of charge, plane charged sheet, charged conductor.		12
II	Electrostatic potential: Electric potential as line integral of electric field, potential due to a point charge, Calculation of electric field from potential, Capacitance of Parallel plate capacitor, Energy per unit volume in electrostatic field. Dielectric & Electric Currents: Dielectric medium, Polarisation, Displacement vector, Gauss's theorem in dielectrics, Parallel plate capacitor completely filled with dielectric. Steady current, current density J, non – steady current and Continuity equation, Rise and decay of current in LR, CR, LCR circuits.		13
III	Magnetism: Magnetostatics: Biot-Savart's law and its applications- straight conductor, circular coil, solenoid carrying current, Divergence and curl of magnetic field, Magnetic vector potential, Ampere's circuital law, Magnetic properties of materials: Magnetic intensity, magnetic induction, permeability, magnetic susceptibility, Brief introduction of dia, para and ferro-magnetic materials.		10
IV	Electromagnetic Induction: Faraday's laws of electromagnetic induction, Lenz's law, self and mutual inductance, L of single coil, M of two coils, Energy stored in magnetic field. Maxwell's equations and Electromagnetic wave propagation: Equation of continuity of current, Displacement current, Maxwell's equations, Wave equation in free space.		10
Keywords:	Vector calculus, Electrostatics, Dielectrics and Electric Current, Magnetism, Electromagnetic Induction, Maxwell's Equation and Electromagnetic Wave Propagation		

Signature of Convener & Members (CBOS) :



PART – C: LEARNING RESOURCES

Text Books, Reference Books and Others

Text Books

1. Electricity and Magnetism, D C Tayal, 1988, Himalaya Publishing House.
2. Unified Physics – Part II, R. P.Goyal, Shivalal Agrawal and Sons
3. Unified Physics – Navbodh Publications
4. Introduction to Electrodynamics and Electromagnetism, H.C.Verma,

Reference Books

1. Vector analysis – Schaum’s Outline, M.R. Spiegel, S. Lipschutz, D. Spellman, 2nd Edn., 2009, McGraw- Hill Education.
2. University Physics, Ronald Lane Reese, 2003, Thomson Brooks/Cole.

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
https://www.motionmountain.net/?gclid=CjwKCAjwmq3kBRB_EiwAjkNDp5v8Yy6xK1s0Kma0VR0AWGlichRwFfCC0-vpZK1jrPoEOAnBq8fcqRoCILsQAvD_BwE
3. Cambridge University Books for Physics <https://www.cambridgeindia.org/>
4. Books for solving physics problems <https://bookboon.com/en/physics-ebooks>
5. NPTEL Online courses: https://onlinecourses.nptel.ac.in/noc21_ph05/preview
6. <https://archive.nptel.ac.in/courses/115/104/115104088/>
7. Classical Electromagnetism - 1 (Electrostatics) <https://bsc.hcverma.in/course/cee1>
8. Classical Electromagnetism - 2 (Electrostatics) <https://bsc.hcverma.in/course/cee2>

PART – D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100Marks

Continuous Internal Assessment (CIA):30 Marks

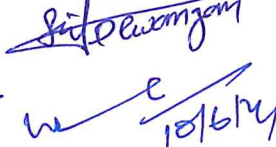
End Semester Examination (ESE): 70 Marks

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 Examination (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:


Suhel


Dhruv


10/6/24





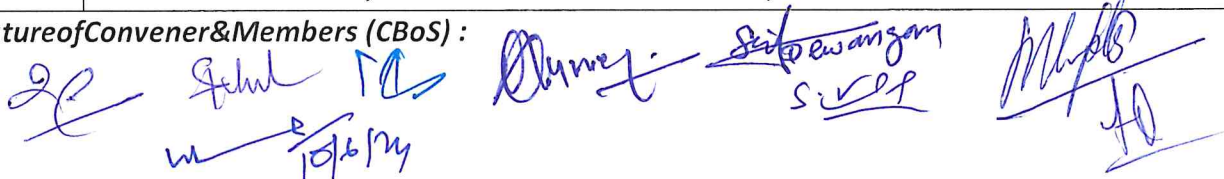
FOUR YEARS UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF PHYSICS

COURSE CURRICULUM

PART – A: INTRODUCTION			
Program: Bachelor in Science (Certificate/ Diploma/ Degree/ Honors)		Semester: II	
		Session: 2024-25	
1	Course Code	PHSC- 02P	
2	Course Title	Electricity & Magnetism	
3	Course Type	Discipline Specific Course	
4	Pre-requisite (if any)	As per program	
5	Course Learning Outcomes (CLO)	<p><i>After the completion of the course, Students are expected to understand working laws of Electricity, Magnetism and EMWs. The students will also be able to</i></p> <ul style="list-style-type: none"> ➤ <i>Verify various circuit laws, network theorems, using simple electric circuits. Assemble required parts/devices and arrange them to perform experiments.</i> ➤ <i>Verify various laws in electricity and magnetism such as Lenz's law, Faraday's law and learn about the construction, working of various measuring instruments</i> ➤ <i>Record/ observe data as required by the experimental objectives. Analyze recorded data and formulate it to get desired results.</i> ➤ <i>Interpret results and check for attainment of proposed objectives related to laws of Electricity, Magnetism and its applications</i> 	
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 Periods	
1	To use a Multimeter for measuring (a) Resistances, (b) AC and DC Voltages, (c) DC Current, and (d) checking electrical fuses.	30	
2	To compare capacitances using De'Sauty's bridge.		
3	Measurement of field strength B and its variation in a Solenoid Determine (dB/dx).		
4	To study the Characteristics of a Series RC Circuit.		
5	To study a series LCR circuit and determine its (a) Resonant Frequency, (b) Quality Factor.		
6	To study a parallel LCR circuit and determine its (a) Anti-resonant frequency and (b) Quality factor Q.		
7	To determine a Low Resistance by Carey Foster's Bridge.		
8	To verify the Thevenin and Norton theorem.		
9	To verify the Superposition, and Maximum Power Transfer Theorem.		
10	To use a vibration magnetometer and study magnetic field.		
11	Study of magnetic field due to a current loop.		
12	Study of magnetic fields using Deflection Magnetometer		
13	Mini Project: Construction and Study of Solenoid and measurement of its magnetic field		
Keywords:	Multimeter, Capacitance Comparison, Magnetic Field, RC Circuit, Series LCR Circuit, Parallel LCR Circuit, Low Resistance Measurement, Electrical Theorems		

Signature of Convener & Members (CBoS) :



PART – C: LEARNING RESOURCES

Text Books, Reference Books and Others

Text Books Recommended-

1. Engineering Practical Physics, S.Panigrahi&B.Mallick,2015, Cengage Learning India Pvt. Ltd.
2. A Text Book of Practical Physics, Indu Prakash and Ramakrishna, 11th Edition, 2011, Kitab Mahal, New Delhi.
3. Unified Practical Physics : R P Goyal, Shivlal Agrawal & Sons
4. Unified Practical Physics: YugbodhPrakashan
5. Unified Practical Physics: NavbodhPrakashan

Reference Books Recommended-

1. Basic Electrical and Electronics Engineering by S. K. Bhattacharya
2. A Textbook of Electrical Technology by B.L. Theraja and A.K. Theraja (Volumes 1 and 2)
3. Engineering Circuit Analysis by William H. Hayt, Jack E. Kemmerly, and Steven M. Durbin
4. Practical Physics by G.L. Squires

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/index.php?sub=1&brch=192>
3. <http://emv-au.vlabs.ac.in/#>
4. <https://www.ae.msstate.edu/vlsm/>
5. <https://nationalmaglab.org/magnet-academy/watch-play/interactive-tutorials>
6. <https://jigyasa-csir.in/cgcri/n12-t4-a3/>

PART – D: ASSESSMENT AND EVALUATION

Suggested Continuous Evaluation Methods:

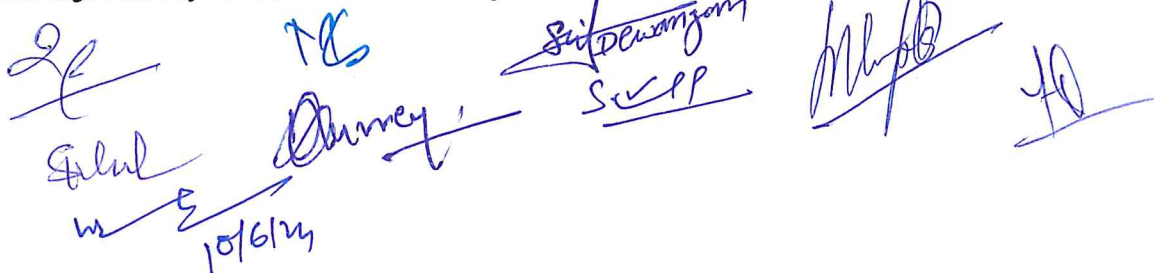
Maximum Marks: **50 Marks**

Continuous Internal Assessment(CIA):15 Marks

EndSemester Exam(ESE):35 Marks

Continuous 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 +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:



	<p>Section B: (any one) a) Francis Bacon (Prose): <i>Of Revenge</i> b) William Shakespeare (Sonnet): <i>From Fairest Creatures We Desire Increase</i></p>	
II	<p>Puritan Age (1625-1660) Section A: a) Salient Features: <i>Purification of Church, Religious Fervour, Supremacy of Bible, Political Supremacy, Rise of Religious Verses, Metaphysical Poetry</i> b) Prominent Authors: John Milton, John Donne, George Herbert, Thomas Browne, Henry Vaughan Section B: (any one) a) John Milton: i. <i>On His Blindness</i> ii. <i>How Soon Hath Time</i> b) John Donne: i. <i>The Sun Rising</i> ii. <i>Death Be Not Proud</i></p> <p>Restoration (1660-1700) Section A: a) Salient Features: <i>Social & Political Conflict, Imitation of the ancients, Opening of Theaters, Rise of Neo-Classicism, Heroic Drama, Comedy of Manners, Cavalier Poetry</i> b) Prominent Authors: John Dryden, John Bunyan, Samuel Butler, William Congreve. Section B: (any one) a) John Dryden: <i>Happy The Man</i> b) John Bunyan: <i>Of The Boy and Butterfly</i></p>	15
III	<p>Neo-Classical Age:(1700-1798) Section A: a) Salient Features: <i>Emphasis on order, accuracy and structure, Periodical Essay, Literature of Sensibility, Graveyard Poetry</i> b) Prominent Authors: Alexander Pope, Dr. Samuel Johnson, Thomas Gray, Joseph Addison, Oliver Goldsmith Section B: (Any one author) Alexander Pope: <i>Ode on Solitude</i> Joseph Addison: <i>Sir Roger at Home</i></p> <p>The Romantic Age (1798-1850) Section A: Salient features: <i>Nature Poetry, Gothic Novel, Jacobean Novel Celebration of Nature, Focus on the Individual, Idealization of Common man and woman</i> Prominent Authors: William Wordsworth, P.B. Shelley, John Keats, Jane Austen, Charles Lamb, William Hazlitt Section B:(Any one author) William Wordsworth: <i>Daffodils</i> Charles lamb: <i>A Bachelor's Complaint of the Behaviour of Married People</i></p>	15
IV	<p>The Victorian Age: Section A: Salient Features:</p>	

Am
10/6/24
Dante
10-6-24

10.6.24
10/6/24

10-6-24
Srinivas
17/6/24
Srinivas
20/06/24
Srinivas

	<p><i>Conflict between Science and Religion, Prominence of Novels, Dramatic Monologues, Periodicals, Children Literature, Oxford Movement, Pre-Raphaelite Movement.</i></p> <p>Prominent Authors: <i>Robert Browning, Matthew Arnold, Charles Dickens, George Eliot, Emily Bronte, Thomas Carlyle, Thomas Macaulay.</i></p> <p>Section B: Robert Browning: <i>My Last Duchess/</i> Alfred Tennyson: <i>Lotus Eater/</i> Maththew Arnold: <i>Dover Beech/</i> Thomas Carlyle: <i>Hero as Poet</i></p> <p>Modern Age Section A: Salient Features: <i>Shift from external to inner reality of human mind, psychological detailing of mind, stream of consciousness and interior monologue, Imagism, Dadaism, Surrealism, Georgian Poetry.</i></p> <p>Prominent Authors: <i>W.B. Yeats, Siegfried Sassoon, T.S. Eliot, W.H. Auden, Dylan Thomas, G.B. Shaw, Samuel Becket, Thomas Hardy, Rudyard Kipling, Virginia Woolf, George Orwell</i></p> <p>Section B: (any one) W.B. Yeats: <i>A Prayer for my Daughter</i> T.S. Eliot: <i>Portrait of a Lady</i> George Orwell: <i>Animal Farm</i></p>
Key-words	<i>Hundred Years war, Black Death, Intellectual Rebirth, Supremacy of Bible, Metaphysical Poetry, Neo-Classicism, Comedy of Manners, Periodic Essay, Gothic Novel.</i>

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

Reference Books:

- Albert, E., "History of English Literature", Oxford University Press, London, 2015.
- Homer: The Iliad, (Book I) tr. E.V. Rieu Harmondsworth: Penguin, 1985.
 - Sophocles: Oedipus, the King, tr. Robert Fagles in Sophocles: The Three Theban Plays Harmondsworth: Penguin, 1984.
 - Gilbert Murray, A History of Ancient Greek Literature, Andesite Press, 2017.
 - Plato, The Republic, Book X, tr. Desmond Lee London: Penguin, 2007.
 - Gregory, J. (ed.) The Blackwell Companion to Greek Tragedy. Oxford, 2005.
 - Cuddon, J.A., "Dictionary of Literary Terms and Literary Theory", Penguin Books, London, 1999.
 - Drabble, M., (ed.), "The Oxford Companion to English Literature", Oxford University Press, Oxford, 1996.
 - Prasad, B., "A Background to the Study of English Literature", Trinity Press, New Delhi, 2014
 - Harmon & Holman., (ed.), "A Handbook to English Literature", Prentice Hall, New York, 1996.
 - Wynne-Davies, M., "The Bloomsbury Guide to English Literature", Prentice Hall, New York, 1990.

Online Resources

- <https://www.britannica.com/art/English-literature>
- <https://leverageedu.com/blog/history-of-english-literature/>
- <https://www.edvisehub.com/history-of-english-literature/>
- https://www.worldwidejournals.com/paripex/recent_issues_pdf/2015/April/April_2015_1429622_759_169.pdf

18/6/24

18/6/24

18/6/24

18/6/24

18/6/24

18/6/24

18/6/24

18/6/24

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

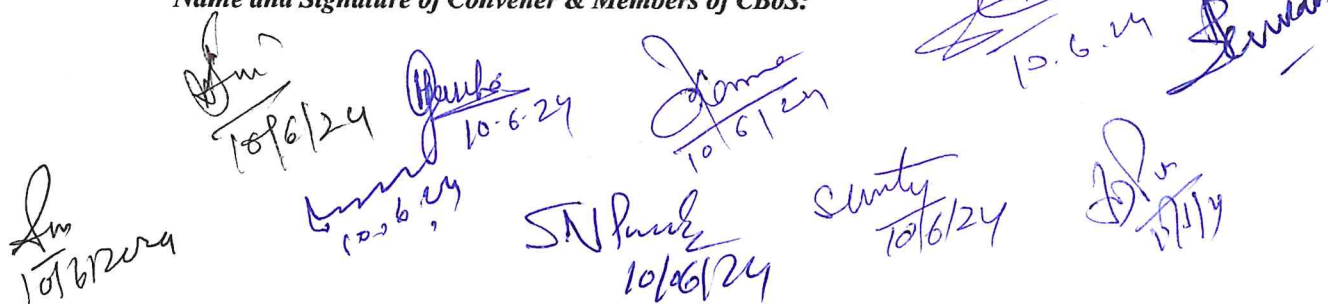
Maximum Marks: **100 Marks**

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 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks 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 =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:



 A series of handwritten signatures and dates in blue ink. The signatures are:

- 10/6/24
- 10-6-24
- 10/6/24
- 10-6-24
- 10/6/24
- 10-6-24
- 10/6/24
- 10/6/24

FOUR YEAR UNDERGRADUATE PROGRAM - (2024-28)

DEPARTMENT OF HINDI

COURSE CURRICULUM

PART -A : Introduction			
Program: Bachelor in Arts Certificate/Diploma/Degree/Honors		Semester - II	Session: 2024-25
1	Course Code	HNGE-02	
2	Course Title	हिन्दी साहित्य का इतिहास – आधुनिक काल	
3	Course Type	GE	
4	Pre-requisite (if any)	As per requirement	
5	Course Learning Outcome (CLO)	1. युगीन परिस्थितियों और साहित्यिक प्रवृत्तियों के आधार पर विद्यार्थी पुनर्जागरण काल एवं जागरण सुधार काल के प्रमुख रचनाकारों की उपादेयता को गहनता से समझ सकेंगे। 2. हिन्दी पद्य के साथ गद्य के क्रमबद्ध विकास को समझ सकेंगे। 3. छायावाद एवं छायावादोत्तर काव्य के माध्यम से तात्कालीन स्वतंत्रता आंदोलन की पृष्ठ भूमि से विद्यार्थी अवगत होंगे। 4. स्वातंत्र्योत्तर पद्य और गद्य की विभिन्न विधाओं के माध्यम से विद्यार्थी बदलते हुए सामाजिक-सांस्कृतिक मूल्यों को समझने में सक्षम हो सकेंगे। 5. भूमण्डलीकरण के दौर में युगीन हिन्दी साहित्य को विश्व साहित्य के सामानान्तर रख कर मूल्यांकनपरक दृष्टि एवं समझ का विकास हो सकेगा।	
6	Credit Value	4 Credits	(01 Credit = 15 Hours - learning & Observation)
7	Total Marks	Maximum Marks : 100	Minimum Passing Marks : 40

Handwritten signature
11-06-24

Handwritten signature

Handwritten signature
11/6/2024

Handwritten signature
11/6/24

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	आधुनिक काल व हिन्दी नवजागरण – भारतेन्दु युग अ. आधुनिक काल की राजनैतिक, सामाजिक, आर्थिक एवं सांस्कृतिक पृष्ठभूमि, हिन्दी नवजागरण ब. भारतेन्दु युग – प्रमुख साहित्यकार, साहित्य एवं साहित्यिक विशेषताएं	15
II	द्विवेदी युग व छायावाद अ. द्विवेदी युग के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं ब. छायावाद के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं	15
III	छायावादोत्तर काल (विभिन्न प्रवृत्तियों) अ. प्रगतिवाद व प्रयोगवाद के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं ब. नई कविता व समकालीन कविता के प्रमुख साहित्यकार, साहित्य एवं विशेषताएं	15
IV	हिन्दी गद्य का विकास अ. कहानी एवं उपन्यास का उद्भव एवं विकास, सामान्य प्रवृत्तियां व प्रमुख कथाकार, उपन्यासकार ब. निबंध एवं नाटक का उद्भव एवं विकास, सामान्य प्रवृत्तियां व प्रमुख निबंधकार तथा नाटककार	15
Keywords		

Signature of Convener & members (CBos) :

PART -C : Learning Resource

Text Books, Reference Books and Others

1. महावीर प्रसाद द्विवेदी और हिन्दी नवजागरण – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली
2. भारतेन्दु हरिश्चंद्र और हिन्दी नवजागरण – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली
3. छायावाद की प्रासंगिकता – रमेशचन्द्र शाह, वाग्देवी प्रकाशन बिकानेर
4. नवजागरण की समस्याएं – डॉ. रामविलास शर्मा, राजकमल प्रकाशन, नई दिल्ली
5. भारतेन्दु की रंग परिकल्पना – सत्येन्द्र तनेजा
6. छायावादोत्तर प्रतिनिधि कवि और उनकी कविताएं – विश्वविद्यालय प्रकाशन वाराणसी
7. हिन्दी गद्य का विकास – भारतेन्दु हरिश्चंद्र
8. आधुनिक हिन्दी गद्य का इतिहास – आचार्य रामचन्द्र शुक्ल, राजकमल प्रकाशन, नई दिल्ली
9. भारतेन्दु युग – डॉ.सत्यपाल शर्मा
10. हिन्दी नाटक उद्भव और विकास – दशरथ ओझा, राजपाल प्रकाशन
11. आधुनिक साहित्य की प्रवृत्तियां – नामवर सिंह, राजकमल प्रकाशन, दिल्ली

Online Resources -

1. E-Adhyayan
2. <https://epustakalay.com.book>
3. info@hindibook.com

PART -D : Assessment And Evaluation

Handwritten signatures and dates:
11-06-24
11/6/2024
11/6/24

<p>Suggested Continuous Evaluation Methods :</p> <p>Maximum Marks : 100 Marks</p> <p>Continuous Internal Assessment (CIA) : 30 Marks</p> <p>End Semester Exam (ESE) : 70 Marks</p>		
<p>Coninuous Internal Assessment : (CIA) : (By Course Teacher)</p>	<p>Internal Test/Quiz-(2) : 20 & 20 Marks</p> <p>Assignment/Seminar - 10 Total Marks 30</p>	<p>Better marks out of the two Text/Quiz obtained marks in assignment shall be considered against 30 Marks</p>
<p>End Semester Exam (ESE) :</p>	<p>Two Section - A&B</p> <p>Section A : Q1 Objective - 10X1=10 Marks</p> <p>Section A : Q2 Short Answer Type - 5X4=20 Marks</p> <p>Section B : Descriptive Answer Type Qts. 1 out of 2 From Each Unit - 4X10=40 Marks</p> <p>Total =70 Marks</p>	

Name and Signature of Convener & Members of CBoS:

[Signature] *[Signature]*

[Signature]
11/6/2024

[Signature]
(Dr. Rajesh Kaur)
11/11/2024

[Signature]
11-06-24

[Signature]

[Signature]
11/6/24

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




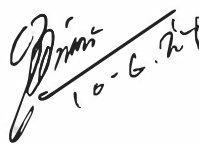




PART-A : INTRODUCTION		
PROGRAM: Bachelor in Arts (Certificate/ Diploma/Degree/Honors)		SEMESTER-II
SESSION:2024-25		
SUBJECT: SOCIOLOGY		
1	COURSE CODE:	SOGE-02
2	COURSE TITLE:	CHANGING SOCIAL INSTITUTIONS IN INDIA
3	COURSE TYPE:	DGE 02
4	Pre-requisite	As per Government norms
5	COURSE LEARNING OUTCOME (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 students will learn and understand the classical background of Indian society. • Students will learn about the Indian social structure. • The course will enhance understanding about pre dominant issues of Indian society. • This course will enhance the understanding about rural structure, development and issues. • The students will learn about social problems of India.
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 Classical Indian: Society and Changes	1. Classical Indian Society and Changes 2. Ashram, Purusharth 3. Karma: Views on Past and Present 4. Caste Roles and Varna Formulations	15
UNIT-II Indian Social Structure	1. Family Roles and its Changing Nature 2. Marriage and its Challenges 3. Kinship: Principle and Pattern 4. Jajmani and Agrarian Relationship	15
UNIT-III Rural Social System	1. Rural Development and Change 2. Rural Migration and Urbanisation 3. Religiosity and superstition in rural society 4. Problem of Peasants	15
UNIT-IV Social Issues in India	1. Poverty and Unemployment : Causes and Remedies 2. Problem of Corruption: Causes and Remedies 3. Drugs Abuse: Types, Causes and Remedies 4. Cyber Crime: Types, Causes and Remedies	15

Signature of Convener & Members :

①  ②  ③  ④ 
 ⑤  ⑥ 
 ⑦  ⑧ 

PART-C : LEARNING RESOURCES, REFERENCE BOOKS& OTHERS

AUTHOR	TITLE	PUBLISHER
TEXTBOOK		
C.N.Shankar Rao	Indian Social Problems	S Chand
Ram Ahuja	Social Problems in India	Rawat Publication
C.N.Shankar Rao	Sociology of Indian Society	S Chand Publication
REFERENCE		
Rajendra Kumar Sharma	Indian Society: Institutions and Change	Atlantic Publication
B.R.Chauhan	Indian Villages	Rawat Publication
Indra Dewa	Society and Culture in India	Rawat Publication

Online Resources

1	https://epgp.inflibnet.ac.in
2	https://vidyamidra.inflibnet.ac.in
3	https://vidyamidra.inflibnet.ac.in/index.php/search
4	https://www.swayamprabha.gov.in

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 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 - 10 x 1 = 10 Marks; Q2. Short answer type - 5 x 4 = 20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit - 4 x 10 = 40 Marks	

Name and Signature of Convener & Members of CBoS

①  ④ 
 ②  ⑤ 
 ③  ⑥ 
 ⑦ 

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

PART-A, INTRODUCTION			
PROGRAM: Bachelor in Art (Certificate/Diploma/Degree/Honors)	Sem -II	SESSION:2024-2025	
SUBJECT: ECONOMICS			
1	COURSE CODE:	ECSC-02	
2	COURSE TITLE:	BASICS OF INDIAN ECONOMY	
3	COURSE TYPE:	DSC	
4	Pre-requisite	As per program	
5	COURSE LEARNING OUTCOME (CLO):	<ul style="list-style-type: none"> The students learn about the state of Indian economy pre and post-independence. The students learn about the planning process and its achievements in Indian economy. The students come across with the new economic reforms introduced in Indian economy in the year 1991 and its role in India's development. The students will come to know about some social problems like overpopulation, education, health & malnutrition, poverty, unemployment etc. The students learn the problems and prospects of agriculture sector in India. The students learn various aspects of industrial development and reforms process in the industrial economy. The students learn the role of foreign trade on Indian economy. They will also learn various aspects of foreign trade in India. The students learn the state income of Chhattisgarh in the form of GSDP, Per capita income, sectorial contribution etc. The students also learn about the importance of agriculture in Chhattisgarh's economy. The students learn about various crops their production and productivity. The students learn about various industries and infrastructure facilities in Chhattisgarh. 	
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- AN INTRODUCTION TO INDIAN ECONOMY	1. INDIAN ECONOMY AT THE TIME OF INDEPENDENCE 2. POST INDEPENDENCE INDIAN ECONOMY	15	

[Handwritten signature] *[Handwritten signature]*

[Handwritten signature] *[Handwritten signature]*

[Handwritten signature] *[Handwritten signature]*

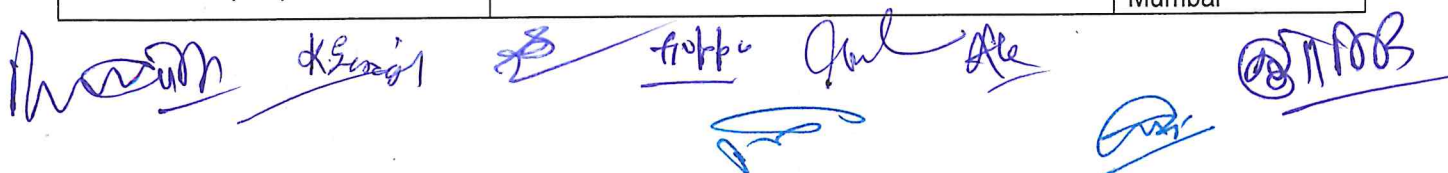
[Handwritten signature] *[Handwritten signature]*

	<ol style="list-style-type: none"> 3. DEVELOPMENT THROUGH FIVE YEAR PLANS 4. NITI AAYOG 5. NEW ECONOMIC REFORMS 	
UNIT II- DEMOGRAPHY	<ol style="list-style-type: none"> 1. DEMOGRAPHIC TRENDS OF INDIA 2. ISSUES OF EDUCATION, HEALTH, MALNUTRITION AND MIGRATION. 3. POVERTY AND INEQUALITY 4. UNEMPLOYMENT & OCCUPATIONAL DISTRIBUTION 	15
UNIT III- AGRICULTURE	<ol style="list-style-type: none"> 1. NATURE & IMPORTANCE OF AGRICULTURE 2. AGRICULTURE PRODUCTION & PRODUCTIVITY 3. MAJOR PROBLEMS IN INDIAN AGRICULTURE 4. LAND USE PATTERN & LAND REFORMS 5. NEW AGRICULTURE STRATIGIES & GREEN REVOLUTION 	15
UNIT IV- INDUSTRY & FOREIGN TRADE	<ol style="list-style-type: none"> 1. INDUSTRIAL GROWTH & PRODUCTIVITY 2. INDUSTRIAL POLICY & ECONOMIC REFORMS 3. MICRO, SMALL & MEDIUM INDUSTRIES (MSME) 4. PROBLEMS OF SMALL SCALE INDUSTRIES 5. PUBLIC ENTERPRIZES IN INDIA 6. ROLE OF FOREIGN TRADE IN INDIA'S DEVELOPMENT 	15

Signature of Convener & Members CBoS:-

PART-C, LEARNING RESOURCES ,Reference Books& others

AUTHOR	TITLE	PUBLISHER
Uma Kapila	India Economy: Performance & Policies	Academic Foundation
Datt, Ruddar & K.P.M. Sundharam	Indian Economy	S. Chand & Co. new Delhi
Mishra & Puri	Indian Economy	Himalaya Publishing House
Govt. of India	Economic Survey (Various Issues)	Govt. of India
Brahmanand, P.R. & V.R. Panchmukhi (Eds)	The development process of the Indian Economy	Himalaya Publishing, Mumbai



मिश्रा एवं पुरी	भारतीय अर्थव्यवस्था	हिमालया पब्लिशिंग हाउस
अग्रवाल, ए. एन.	भारतीय अर्थव्यवस्था	न्यू ऐज इंटरनेशनल पब्लिशर्स
मिश्र, जे. पी.	भारतीय अर्थव्यवस्था	साहित्य भवन पब्लिकेशन, आगरा
छत्तीसगढ़ सरकार	आर्थिक सर्वेक्षण	आर्थिक एवं सांख्यिकीय संचालनालय, रायपुर
Uma Kapila	India Economy: Performance & Policies	Academic Foundation

Online Resources

1	https://epgp.inflibnet.ac.in
2	https://vidyamidra.inflibnet.ac.in
3	https://vidyamidra.inflibnet.ac.in/index.php/search
4	https://www.swayamprabha.gov.in
5	https://www.rbi.org.in/
6	http://descg.gov.in
7	https://www.indiabudget.gov.in/economicsurvey/
8	https://www.cso.ie/en/index.html

PART-D ASSESSMENT & EVALUATION

Suggested Continuous Evaluation Methods:

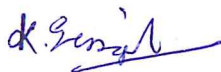
Maximum Marks	:100 Marks
Continuous Internal Assessment (CIA)	: 30 Marks,
End Semester Exams (ESE)	:70 marks

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
---	---	---

End Semester Exams (ESE) :	Two Section – A & B Section A: Q 1- Objective- 10x1=10 Marks Q 2-Short answer type- 5x4=20 Marks Section B: Descriptive answer type questions, 1 out of 2 from each unit - 4x10=40 Marks
-----------------------------------	--

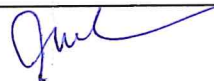
Signature of Convener & Members CBoS:-















चार वर्षीय स्नातक पाठ्यक्रम (2024-28)

अर्थशास्त्र विभाग

कोर्स करिकुलम

खंड - अ : परिचय			
पाठ्यक्रम : बैचलर इन आर्ट्स (सर्टिफिकेट / डिप्लोमा / डिग्री / आनर्स / आनर्स सह रिसर्च)		सेमेस्टर - II	सत्र - 2024-2025
1	कोर्स कूट	ECSC - 02	
2	कोर्स शीर्षक	भारतीय अर्थव्यवस्था की सामान्य जानकारी	
3	कोर्स प्रकार	DSC	
4	पूर्व अपेक्षित (यदि हो)	आवश्यकता अनुरूप	
5	कोर्स लर्निंग आउटकम (CLO)	<ul style="list-style-type: none"> छात्र आजादी से पहले और आजादी के बाद भारतीय अर्थव्यवस्था की स्थिति के बारे में सीखते हैं। छात्र भारतीय अर्थव्यवस्था में योजना प्रक्रिया और इसकी उपलब्धियों के बारे में सीखते हैं। छात्र वर्ष 1991 में भारतीय अर्थव्यवस्था में शुरू किए गए नए आर्थिक सुधारों और भारत के विकास में इसकी भूमिका से परिचित हुए। छात्रों को कुछ सामाजिक समस्याओं जैसे अधिक जनसंख्या, शिक्षा, स्वास्थ्य और कुपोषण, गरीबी, बेरोजगारी आदि के बारे में पता चलेगा। छात्र भारत में कृषि क्षेत्र की समस्याओं और संभावनाओं को सीखते हैं। छात्र औद्योगिक विकास और औद्योगिक अर्थव्यवस्था में सुधार प्रक्रिया के विभिन्न पहलुओं को सीखते हैं। छात्र भारतीय अर्थव्यवस्था पर विदेशी व्यापार की भूमिका सीखते हैं। वे भारत में विदेशी व्यापार के विभिन्न पहलुओं को भी सीखेंगे। छात्र जीएसडीपी, प्रति व्यक्ति आय, क्षेत्रीय योगदान आदि के रूप में छत्तीसगढ़ की राज्य आय सीखते हैं। छात्र छत्तीसगढ़ की अर्थव्यवस्था में कृषि के महत्व के बारे में भी सीखते हैं। छात्र विभिन्न फसलों, उनके उत्पादन और उत्पादकता के बारे में सीखते हैं। छात्र छत्तीसगढ़ में विभिन्न उद्योगों और बुनियादी सुविधाओं के बारे में सीखते हैं। 	
6	क्रेडिट महत्व	4 क्रेडिट	क्रेडिट = 15 घंटे का अध्ययन / प्रशिक्षण/ प्रवेक्षण
7	कुल अंक	पूर्णांक - 100	उत्तीर्णांक - 40

खंड - ब : कोर्स की विषयवस्तु

कुल अध्यापन कालखंड (01घंटा प्रति काल खंड) - 60 कालखंड (60 घंटे)

इकाई	प्रसंग (विषय वस्तु)	कालखंड की संख्या
I - भारतीय अर्थव्यवस्था का परिचय	<ol style="list-style-type: none"> स्वतंत्रता के समय भारतीय अर्थव्यवस्था स्वतंत्रता के बाद की भारतीय अर्थव्यवस्था पंचवर्षीय योजनाओं के माध्यम से विकास नीति आयोग नए आर्थिक सुधार 	15
II - जनांकिकी	<ol style="list-style-type: none"> भारत की जनसांख्यिकीय प्रवृत्तियाँ शिक्षा, स्वास्थ्य, कुपोषण और प्रवासन के मुद्दे 	15

Handwritten signatures and marks at the bottom of the page, including names like 'D. Srinivas' and 'S. K. Srinivas'.

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF COMPUTER SCIENCE
COURSE CURRICULUM




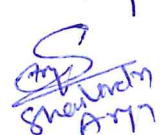

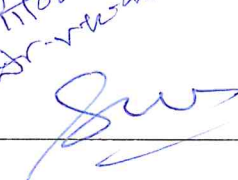

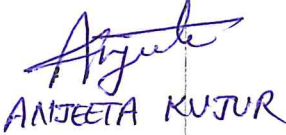
PART- A: Introduction			
Program: Bachelor of Science (CS) <i>(Certificate / Diploma / Degree)</i>		Semester - II/IV/V/VI	
Session: 2024-2025			
1	Course Code	CSSEC-01	
2	Course Title	Multimedia and Animation	
3	Course Type	Skill Enhance Course (SEC)	
4	Prerequisite	As Per Program	
5	Course Learning Outcomes (CLO)	After Completing this course, students will be able to: <ul style="list-style-type: none"> • Understand about Multimedia Framework. • Work with Adobe Flash. • Create games using Flash. • Film editing using VFX. 	
6	Credit Value	2 Credits (1C+1C)	<i>Credit =15 Hours Theoretical Learning and = 30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course

Total No. of Teaching-learning periods:
Theory- 15 Periods (15 Hrs.) and Laboratory or Field learning/Training Periods: 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
<i>Theory Content</i>	<ol style="list-style-type: none"> 1. Introduction to multimedia, multimedia hardware, multimedia software and frameworks. 2. Introduction to flash, creating games, making presentations, animation, visualizations. 3. Introduction to VFX, VFX compositing and editing, animation, motion, modelling artist, texture artist, painting, rigging. 	15
<i>Lab/Field Training Content</i>	<ol style="list-style-type: none"> 1. Create and Edit 2D animation using Flash. 2. Create and Edit 3D animation using Flash. 3. Making presentation using Flash. 4. Creating games using Flash. 5. Audio/video Editing using VFX. 6. Film editing using VFX. 7. Color grading using VFX. 8. Motion graphics designing using VFX. 	30
<i>Keywords</i>	<i>Multimedia, Animation, Flash, VFX.</i>	

Name and Signature of Convener & Members of CBoS:

Dr. H.S. Holga  chairman
  (Sunil Thakur)
 Shalini
 Anamika
 Anamika
 Anamika
 ANJEETA KUMAR

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Brian Underdahl, Macromedia Flash MX: The Complete Reference, McGraw-Hill
- Ibis Fernandez, Flash Animation and Cartooning: a creative guide
- Tony white, The animators to Adobe Flash.
- Ian failes, Masters of FX.

Reference Books Recommended:

- Jan Marrelli , A Guide to Web Development Using Adobe Dreamweaver CS3 with Fireworks and Flash, Lawrenceville Press
- Codex Jeffrey A. Okun and Susan Zwerman, The VES handbook of Visual Effects: Indutry Standard VFX Practices and Procedures.

Online Resources:

- Introduction to Multimedia:
<https://www.javatpoint.com/multimedia-definition#:~:text=Multimedia%20combines%20several%20media%20formats,users%20engage%20with%20the%20information.>
- Introduction to Multimedia:
https://www.w3schools.com/html/html_media.asp
- Introduction to Flash:
<https://www.javatpoint.com/what-is-flash#:~:text=Adobe%20Flash%20is%20usually%20installed,of%20disabling%20the%20browser%20extension.>
- Introduction-To-Macromedia-Flash-8:
<https://www.geeksforgeeks.org/introduction-to-macromedia-flash-8/>

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 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	Managed by Course teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

Dr. H.S. Hota
Chairman

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

Dr. Anil K. Singh

ANJEETA KUMAR

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	AEC-03	
2	Course Title	हिन्दी भाषा-1	
3	Course Type	Ability Enhancement Course	
4	Pre-requisite (if any)	As per requirement	
5	Course Learning Outcome (CLO)	1. विद्यार्थी हिन्दी भाषा एवं व्याकरण संबंधी ज्ञान से समृद्ध होंगे। 2. भाषा ज्ञान के माध्यम से भारतीय संस्कृति एवं भावनात्मक एकता के महत्व को समझने की क्षमता विकसित हो सकेगी। 3. मुहावरे एवं लोकोक्तियों का महत्व समझ सकेंगे। 4. व्यंग्य, निबंध एवं कविता विधा से परिचित होंगे। 5. निबंध लेखन एवं अपठित गद्यांश के माध्यम से विद्यार्थियों का बौद्धिक विकास हो सकेगा।	
6	Credit Value	2 Credits	(01 Credit = 15 Hours - learning & Observation)
7	Total Marks	Maximum Marks : 50	Minimum 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
I	रचनाएं भारत वंदना – सूर्यकांत त्रिपाठी 'निराला' (कविता) भोलाराम का जीव – हरिशंकर परसाई (व्यंग्य) चोरी और प्रायश्चित – महात्मा गांधी (निबंध)	8
II	हिन्दी व्याकरण एवं शब्द रचना उपसर्ग, प्रत्यय, संधि, समास पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द	7
III	हिन्दी व्याकरण एवं रचना पक्ष मुहावरे एवं लोकोक्तियां पारिभाषिक शब्दावली एवं हिन्दी में पदनाम, शब्द शुद्धि, वाक्य शुद्धि	8
IV	रचनात्मक लेखन निबंध लेखन अपठित गद्यांश (नोट विद्यार्थी को किसी एक विषय पर निबंध व प्रदत्त गद्यांश का शीर्षक तथा सारांश लिखना होगा।)	7
Keywords		

Signature of Convener & members (CBoS):

[Signature]

[Signature]
11/06/24

[Signature]
11/06/2024

[Signature]

[Signature]
11/06/24

[Signature]
11-06-2024

PART -C : Learning Resource
Text Books, Reference Books and Others
1. भारतीयता के अमर स्वर – डॉ. धनंजय वर्मा, मध्यप्रदेश हिन्दी अकादमी 2. आधुनिक हिन्दी व्याकरण और रचना – डॉ. वासुदेव नंदन 3. हिन्दी भाषा और व्यवहार – डॉ. गंगा चरण त्रिपाठी 4. हिन्दी व्याकरण माला – डॉ. के.आर. गहिया, डॉ. विमलेश शर्मा 5. हिन्दी व्याकरण – कामता प्रसाद गुरु
Online Resources -
1 www.bookspace.in 2 https://libgmm.com 3 https://www.gkexams.com

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 Marks Assignment/Seminar+Attendan ce - 05 Total Marks 15	Better marks out of the two Text/Quiz obtained marks in assignment shall be considered against 15 Marks
End Semester Exam (ESE) :	Two Section - A&B Section A : Q1 Objective - 05X1=05 Marks Section A : Q2 Short Answer Type - 5X2=10 Marks Section B : Descriptive Answer Type Qts. 1 out of 2 From Each Unit - 4X5=20 Marks Total =35 Marks	

Handwritten signature

Handwritten signature

Handwritten signature
11/6/2024

Handwritten signature

Handwritten signature
11/6/24

Handwritten signature
11-06-2024

Handwritten signature
11/06/24