



SLC (University of Delhi)

# SHYAM LAL COLLEGE

NAAC A++, NIRF 43<sup>rd</sup>, DBT Star College

ACADEMIC YEAR 2025-26

## NEP 2020 4th Year

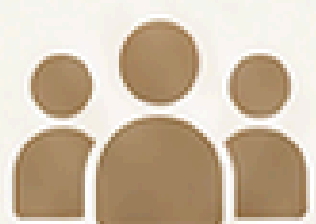


NEP RESEARCH OUTPUT FOR 4<sup>th</sup> YEAR STUDENTS

Research / Dissertation / Project



Semester VIII research presentations by undergraduate students of B.A. Programme, B.A. (Hons.) Political Science, B.A. (Hons.) Hindi, B.A. (Hons.) Economics, B.Sc. Programme, B.Sc. (Hons.) Mathematics, and Commerce, showcasing original research on contemporary political, social, and governance themes.



300+  
STUDENTS



10+  
DEPARTMENTS



VIII  
SEMESTER 2025-26



PPT  
PRESENTATION MODE

*Innovate. Investigate. Inspire.*

Research Today, Impact Tomorrow.

# B.Sc. (Hons.) with Chemistry - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty /Supervisor/s	Synopsis
1	Production of Biochar from poultry litter and study the effect of concentration by metal salt modification.	Himanshu Kumar Patel	Dr. Raghvendra M	<i>This study focuses on the preparation of biochar from poultry litter using a muffle furnace.</i>
2	Computational Investigation of Molecular Level Interactions in Triazolium and Imidazolium Based Methanesulphonate Protic Ionic liquids.	Parshvi Jain	Dr. Rakesh Pant	<i>This study investigates molecular-level interactions in triazolium and imidazolium-based methanesulphonate protic ionic liquids using computational methods. It focuses on understanding their structural and interaction properties under controlled conditions.</i>
3	Survey based study on waste plastic collection in different area.	Arun Kumar	Dr Prem Lata Meena	<i>This study presents a survey-based analysis of waste plastic collection practices across different areas. It focuses on understanding collection patterns, waste management challenges, and public awareness regarding plastic waste disposal and recycling.</i>
4	Study of Solar Radiation Harvesting Properties of a Meso-Substituted Porphyrin.	Preeti Manda	Dr. Padma Dechan	<i>This study highlights the optical, photochemical, and catalytic properties of porphyrins and metalloporphyrins. It focuses on their applications as photocatalysts for the degradation of hazardous dye pollutants in wastewater treatment.</i>

## B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
1	Control and Anti-Synchronization of Chaotic Tuberculosis Transmission Dynamics via Advanced Nonlinear Techniques.	Diya Baidya	<i>This study demonstrates the effectiveness of anti-synchronisation in epidemiological modeling.</i>
2	Eigenvalue Decomposition and PCA-Based Portfolio Optimization: A Case Study on S&P 500.	Prakhar Shukla	<i>This study compares three portfolio construction approaches, the Markowitz Minimum Variance Portfolio (MVP), the PCA-based Top Eigenportfolio, and an equal-weight portfolio.</i>
3	A Novel Quantum Encryption based Secure Authentication Protocol for Transportation Systems.	Neha	<i>This work proposes a novel quantum encryption-based secure authentication protocol tailored for modern transportation networks. Through the use of quantum mechanisms, this protocol is well suited for future-generation intelligent transportation systems.</i>
4	Bayesian vs Frequentist inference : A Theoretical Study.	Himanshu budhakoti	<i>This paper aims to provide a balanced theoretical study on their applicability and relevance in modern statistical practice. This study also investigates several key differences, including the Frequentist reliance on sampling distributions versus the Bayesian use of posterior and prior distributions.</i>
5	Poisson Process Modelling of Insurance Claim Frequency: An empirical and theoretical study.	Pritika Khandelwal	<i>It models the Poisson process to forecast the frequency of insurance claims and traces its development from simple probability theory to application. Based on actual insurance claims data, the study illustrates how the procedure can be carried out to model the claim frequency process.</i>
6	Enhancing ATM PIN Security Using ECC with AI-Based Biometric Recognition.	Shivam Verma	<i>This research enhances ATM security by integrating Elliptic Curve Cryptography (ECC) and AI-driven biometrics, offering advanced authentication layers that improve upon traditional implementation standards.</i>
7	Enhancing Atm Pin Security Using ECC with AI-Based Biometric Recognition.	Raj Maurya	<i>This research enhances ATM security by integrating Elliptic Curve Cryptography (ECC) and AI-driven biometrics, offering advanced authentication layers that improve upon traditional implementation standards.</i>
8	Enhancing E2EE Security using RSA Cryptography.	Anshu Tomar	<i>This research demonstrates how RSA cryptography strengthens End-to-End Encryption (E2EE) by utilizing asymmetric key pairs to facilitate secure key exchanges, user authentication, and digital signature verification.</i>

## ◆ B.Sc. (Hons.) with Mathematics - 4th Year ◆

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
9	Detection Of Naegleria Fowleri Through Machine Learning Approach.	Anukesh Kumar	<i>This study highlights machine learning (ML) as a proactive decision-support tool for monitoring water quality and predicting Naegleria fowleri risks. By identifying environmental patterns that favor this amoeba, these models enable early warning systems to reduce human infection rates.</i>
10	Enhancing E2EE Security using RSA Cryptography.	Nishpreet kaur	<i>This research demonstrates how RSA cryptography enhances the E2EE experience by allowing users to exchange cryptographic keys securely, authenticate users and verify digital signatures.</i>
11	Advanced Encryption Standard (AES): A Symmetric Post Quantum Algorithm.	Chitra Saini	<i>This research paper reviews the NIST reports, highlighting expected future changes in cryptographic standards and the move towards quantum-secure systems.</i>
12	A Comprehensive Study of Asymmetric Post Quantum Candidates.	Ritika Sharma	<i>A comprehensive study of asymmetric post-quantum cryptographic candidates. This study reviews existing code-based cryptosystems and presents several variants of the McEliece encryption scheme.</i>
13	Analytical Solutions of Nonlinear Fluid Problem by Tan-Cot Method.	Kanishka Gupta	<i>This paper focus on solving a nonlinear fluid problem using the Tan-Cot function method.</i>
14	Application Of Dijkstra's Algorithm for Shortest Route Analysis Using Python.	Pranjal Tiwari	<i>This study examines the application of Dijkstra's Algorithm for shortest route analysis by integrating mathematical theory with computational implementation using Python.</i>
15	Application Of Dijkstra's Algorithm for Shortest Route Analysis Using Python.	Shivam Rajput	<i>This study examines the application of Dijkstra's Algorithm for shortest route analysis by integrating mathematical theory with computational implementation using Python.</i>

## B.Sc. (Hons.) with Mathematics - 4th Year

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16	Cryptanalysis of Developing a Provable Secure and Cloud-Centric Authentication Protocol for the e-Healthcare System.	Abhishek kumar	<i>This study identifies critical security vulnerabilities in existing cloud-based E-healthcare authentication models, specifically those proposed by Alzahrani et al. While safe data transmission is a prerequisite for Internet of Things (IoT) medical systems, current frameworks remain susceptible to sophisticated cyber threats.</i>
17	The Banach Contraction Principle and Its Extensions to C*-Algebra Valued Metric Space.	Aysha Sabreen	<i>This work surveys its extensions to perturbed and C*-algebra valued metric spaces, highlighting generalized contractive conditions and theoretical frameworks for stability, robustness, and fixed point results.</i>
18	Fixed-point theorem in a C*-algebra-valued metric space.	Vishal Singh	<i>This paper studies fixed point theory in C*-algebra valued metric spaces, where distances lie in a unital C*-algebra. It examines convergence, completeness, and positivity, adapts classical fixed point theorems.</i>
19	Study of Some Aspects of Non-Linear Wave Propagation.	Vivek Kumar Rawat	<i>This paper examines nonlinear wave propagation in compressible gases, focusing on non-ideal effects using models like van der Waals equation and Chaplygin gas.</i>
20	A Quantitative Statistical Analysis of Consumer Preferences towards E-Commerce Subscription Models among the 18-25 Age Group.	Nakshata Agarwal	<i>This study analyzes subscription preferences among Indian consumers aged 18–25, focusing on retention in e-commerce.</i>
21	Effect of perturbations in Coriolis and centrifugal forces in the photogravitational restricted three-body problem.	Shashvat Kumar Mishra	<i>This study examines small perturbations in Coriolis and centrifugal forces in the photogravitational restricted three-body problem.</i>
22	Identification numbers and their check digit schemes.	Nitesh Kumar	<i>This paper studies identification systems and check digit schemes, emphasizing their role in error detection for large-scale systems like India's.</i>
23	Applications of the Banach Fixed Point Theorem and their generalizations in Machine Learning.	Kishan Kumar Jha	<i>This work explores the Banach Fixed Point Theorem and its generalisations, including Kannan contraction, to analyse convergence in machine learning algorithms.</i>
24	A hybrid machine learning-enhanced SEIR model for regional COVID-19.	Shivam Pandey	<i>This dissertation studies infectious disease spread using the SEIR model within mathematical epidemiology. It examines deterministic and stochastic approaches, highlighting limitations of classical models during dynamic outbreaks like COVID-19. taining the SEIR structure.</i>
25	Mental Health Challenges Faced by School Students: An Exploratory Study.	Shweta verma	<i>This study examines school students' mental health challenges, including stress, academics, and social factors, using questionnaire data. Reliability is tested with Cronbach's alpha, and statistical tools summarize responses.</i>

## B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
26	Optimization of the academic timetable scheduling under NEP Framework using greedy heuristic algorithm.	Palak Gupta	<i>This research frames academic timetabling as a complex resource allocation challenge, intensified by the National Education Policy (NEP) 2020. To manage the shift toward multidisciplinary and flexible learning, the study proposes a hybrid computational model.</i>
27	Risk-Adjusted Performance Evaluation of Option Trading Strategies through Greek Sensitivities and Sharpe Ratio Metrics: A Time-Based Study on Nifty 50 Options.	Sneha Bhardwaj	<i>This study evaluates Nifty 50 option strategies by focusing on risk-adjusted performance rather than just total profit. Using the Black-Scholes model and NSE data, it analyzes how Option Greeks and the Sharpe Ratio influence success across various timeframes.</i>
28	Analyzing Stock Market Behavior Using Markov Chain with FII and DII Data.	Piyush Mittal	<i>This study uses a Markov chain to analyze Indian stock market volatility and the influence of FII and DII flows on short-term movements.</i>
29	Linear Algebra for Machine Learning.	Manisha Kumari	<i>This study examines the role of Linear Algebra in machine learning, focusing on vectors, matrices, eigenvalues, and decompositions.</i>
30	Assessing HPV Vaccination Awareness, Uptake and Perception: A Statistical Study of University Students in the Delhi/NCR Region.	Harshita Bhardwaj	<i>This study examines HPV awareness and vaccination among university students in Delhi NCR using a cross-sectional quantitative design.</i>
31	A Weighted Graph Approach to Traffic Flow Modelling with External Disruptions.	Ghanakshi Gautam	<i>This study, a dynamic traffic routing model based on graph theory that includes the effects of weather and public events.</i>
32	Impacts of AI tool usage on cognitive abilities and learning outcomes among universities students in Delhi / NCR.	Rashmi Singh	<i>This study highlights a critical paradox in the universal adoption of AI (specifically ChatGPT): while student performance may remain stable, underlying cognitive faculties are often deteriorating. This phenomenon is characterised by bimodal patterns where the outcome depends entirely on the nature of engagement.</i>
33	Repeated key errors correcting codes.	Arya Yadav	<i>This research expands error control coding (ECC) theory by moving beyond standard random or burst errors to address source-specific errors. Specifically, it introduces the concept of "repeated key errors," which are common in mechanical devices and specific hardware interfaces.</i>
34	Numerical Methods for Solving Fractional Differential Equations.	Divyanshu Kandpal	<i>This study explores the use of Numerical Methods to solve Fractional Differential Equations (FDEs), which utilize non-integer derivatives to model complex systems with "memory" and "hereditary" effects.</i>
35	Rayleigh Waves at the Surface of a Fibre-Reinforced Viscoelastic Medium under the Effect of Gravity.	Shruti Garg	<i>This research analyzes the propagation of Rayleigh waves within a fiber-reinforced viscoelastic half-space, specifically accounting for the influence of gravitational forces.</i>

## B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
36	Rayleigh waves at the surface of fiber reinforced viscoelastic medium under the effect of magnetic field.	Chahak	<i>This research investigates the propagation of Rayleigh waves within a fiber-reinforced viscoelastic medium, specifically analyzing the influence of an external magnetic field.</i>
37	A Variational Iteration method to solve Singularly Perturbed Reaction Diffusion Equation with small shift.	Anuj Kumar	<i>This research examines a specific class of singularly perturbed reaction-diffusion equations that incorporate a small shift parameter. These problems are computationally challenging due to their multiscale characteristics.</i>
38	Study of Behavioral Changes in a Tri-trophic Food Chain due to Prey Refuge.	Rahul Kumar	<i>This research develops a mathematical model to analyze a tri-trophic food chain (prey, middle predator, and top predator) with a specific focus on the ecological impact of prey refuge.</i>
39	A Systematic Meta-Analysis: Reed-Solomon Codes for Burst Error Correction in Secure Communication Systems.	Sanskriti	<i>This study provides a structured analysis of burst error resilience, focusing on how interleaving, decoding techniques, and algebraic structures protect data integrity.</i>
40	Advancements in Fixed Point Theory and Its Applications.	Sakshi Dwivedi	<i>This study provides a comprehensive analysis of the Banach Fixed Point Theorem, a cornerstone of functional analysis used to guarantee the existence and uniqueness of solutions in complete metric spaces.</i>
41	Study of nonlinear wave propagation.	Yash Gupta	<i>This research establishes a mathematical framework for analyzing the transition from smooth wave propagation to shocks using nonlinear first-order PDEs and conservation laws.</i>
42	Vedic mathematics: a comprehensive review of historical origins, mathematical basics, and interdisciplinary applications.	Ravindar	<i>This study provides a longitudinal analysis of mathematical evolution, tracing the lineage of ancient Indian computational logic to state-of-the-art technological applications as of late 2025.</i>
43	Wave propagation in a fibre-reinforced viscoelastic medium under the effect of a magnetic field.	Khushi Gupta	<i>This research explores the transformative impact of magnetic fields on wave propagation, specifically how the interaction between electromagnetic and mechanical forces alters wave speed, direction, and attenuation.</i>
44	Graphical Analysis of Complex Functions using Mathematica.	Pooja	<i>This study demonstrates the role of CAS, in particular Mathematica, as an educational tool for theoretical insight into functions of a complex variable through graphical visualisation.</i>
45	Generalisation of Metric Space.	Ankit Kumar	<i>This research acts as a unifying framework for Metric Fixed Point Theory, consolidating various existing theorems into a more cohesive and expansive model. By generalizing these principles, the study simplifies the complex landscape of nonlinear analysis.</i>

## ◆ B.Sc. (Hons.) with Mathematics - 4th Year ◆

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46	Compressible fluids and Chaplygin gas.	Anuj kumar dwivedi	<i>This study provides a structured overview of compressible fluid dynamics, focusing specifically on the unique properties and mathematical behavior of Chaplygin gas.</i>
47	Finding the Inverse of matrices using vedic mathematics.	Utkarsh	<i>This research demonstrates how Vedic algorithms offer a superior alternative to traditional matrix calculation methods by blending ancient mathematical logic with modern computational efficiency.</i>
48	Mappings in Complex Analysis From Classical to Hybrid.	Deeksha Singh	<i>This research employs a dual-methodology approach, combining rigorous analytical theory with computational visualization to explore the behavior of complex mappings.</i>
49	User Awareness, Safety Protocols, and Scam Prevention in Digital Payment Environments among University Students of Delhi/NCR: A Statistical Analysis.	Shruti Gaur	<i>This study establishes a strategic framework for improving UPI (Unified Payments Interface) security through targeted educational interventions, positioning user literacy as a cornerstone of India's digital evolution.</i>
50	Analysis of Resonance Curve in the Restricted Three-Body Problem Including the effect of Earth's Equatorial Ellipticity and Centrifugal force.	Kanishk Singh	<i>This study we effect of the centrifugal force and Earth's equatorial ellipticity on the resonance curve.</i>
51	The Mathematical Analysis of Dark Sector Interactions as a Resolution to the Coincidence Problem.	Mahi Jain	<i>This research introduces a mathematical formulation designed to evaluate the impact of interaction mechanisms within a cosmological model without modifying the background geometry</i>
52	Optimization model for municipal SOLID waste segregation and allocation.	MD Anas	<i>This study provides an optimized logistics framework for urban waste management in Delhi, focusing on cost efficiency, infrastructure resilience, and long-term scalability.</i>
53	Green Inventory Management: A Carbon Integrated Framework for reducing Environmental Impact.	Shivani Gautam	<i>This study enhances the Eco-Efficient Economic Order Quantity (EOQ) framework by integrating financial objectives with environmental responsibility under conditions of market uncertainty.</i>
54	A study of duality and optimality in bilevel multiobjective programming using convexifactor.	Yashi Singh	<i>This study advances the field of hierarchical optimization by bridging the gap between classical duality theory and complex, non-differentiable systems.</i>
55	Inventory Supply Chain Management.	Deepti	<i>This study develops an advanced Economic Order Quantity (EOQ) model designed to maximize profit by accounting for the complex realities of modern supply chains: product perishability and imperfect quality.</i>

## B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
56	Optimization Model for Solid Waste Segregation and Allocation: A Case Study.	Mohd Zaid	<i>This portion of the study focuses on the vulnerability of urban infrastructure and the long-term resilience of the waste management network.</i>
57	The Influence of Disordered Eating Habits on Physical and Psychological Health Markers among University Students of Delhi/NCR.	Shailvi	<i>This research underscores the critical link between the psychological health of university students and the broader national goal of long-term development.</i>
58	Mathematical Programming Problem under Various Classes of Functions with Constraint Qualification.	Tanvi	<i>This research provides a rigorous examination of the mathematical foundations of constrained optimization, focusing on the critical role of Constraint Qualifications (CQs) in verifying optimality.</i>
59	Optimization model for municipal SOLID waste segregation and allocation.	Riya Joshi	<i>This research establishes a dynamic framework for managing urban resources, specifically focusing on the transition from static planning to a more resilient, multi-period logistical model.</i>
60	Mathematical Structure in Post-Quantum Cryptography: A Comparative Study of Lattice-Based and Code-Based Primitives in Hybrid Cryptographic Schemes.	Vanshika Sahu	<i>This study explores the foundational security of code-based cryptography, emphasizing how the difficulty of specific mathematical problems translates into secure, real-world digital protection.</i>
61	Availability Optimization of a Textile Manufacturing System using Mathematical Algorithms.	Tushar	<i>This study is about the availability and optimization of a combed sliver manufacturing system that comprises blow room, carding machine, unilap machine and comber machine. Analytically all probabilities in the state are calculated together with a recursive relationship and the normalization condition.</i>
62	Wave propagation in fibre-reinforced viscoelastic medium under the effect of gravity.	Mani Sharma	<i>This study explores the propagation of plane waves at the surface of a fiber-reinforced viscoelastic medium under the influence of gravity.</i>
63	Exploring fractal theory and its types with computational visualisation.	Perna Sharma	<i>This paper examines the development of fractals and explains the necessity of fractals in the study of nature. The inadequacy of standard geometric concepts in describing irregular structures is discussed to justify the importance of fractals.</i>
64	A stackelberg game theory: theoretic approach to inventory optimization with kkt based analysis.	Pari Khanna	<i>This analysis critiques the limitations of the Economic Order Quantity (EOQ) model when applied to modern, multi-layered supply chains, highlighting the disconnect between theoretical assumptions and market realities.</i>
65	Studies on Non-Newtonian Calculus over Geometric Copson Operator and Applications in Geometric Laplace Transform and Hilbert Space.	Rahul Sharma	<i>In this study, a new class of geometric Copson operators within the framework of non-Newtonian (geometric) calculus and investigate their associated sequence spaces is introduced.</i>

# B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
66	Neutrosophic Machine Learning Framework for Solar Energy Data Analysis and Sustainability.	Megha Rawat	<i>The study focuses on the challenges that arises when Machine Learning models are applied to decision-making in solar energy systems due to uncertainty or inaccuracy in datasets.</i>
67	Bouncing Universe Scenarios: A Mathematical Perspective Beyond the $\Lambda$ CDM Big Bang Singularity	Adrita Dasgupta	<i>In this paper, a new parametric form of the Hubble parameter is proposed in a flat, homogeneous and isotropic background in the framework of general theory of relativity.</i>
68	Mathematical Modelling of Dynamical Dark Energy as an Alternative to the Cosmological Constant.	Sneha Tyagi	<i>This paper proposes a transition to a Machine Learning (ML) surrogate framework designed to act as an instant-prediction engine.</i>
69	Influence of fiber Orientation on wave propagation in fiber reinforced viscoelastic medium under the effect of gravity.	Aditi	<i>The current paper explores the elastic wave propagation in a fiber reinforced viscoelastic material considering the joint effect of gravity and fiber orientation.</i>
70	Applications of the Hahn-Banach Theorem In Convex Optimization and Machine Learning.	Apurv Tripathi	<i>This research explores the foundational role of the Hahn-Banach Theorem, demonstrating how its abstract principles in functional analysis provide the "geometric backbone" for modern optimisation and machine learning (ML).</i>
71	Development of a conceptual framework for machine learning-assisted structural health monitoring in complex composite structures.	Ridhima Gupta	<i>This research addresses the critical computational bottleneck in Structural Health Monitoring (SHM) for composite structures, where traditional Finite Element Analysis (FEA) is too slow for real-time safety optimization.</i>
72	A Sustainable One-Health Approach to Predicting Outbreaks: Climate-Driven Stochastic SEIR and Spillover in Changing Landscapes.	Aditya	<i>This research introduces a novel mathematical framework by merging Non-Newtonian (Geometric) Calculus with operator theory, specifically focusing on the development of Geometric Copson Operators.</i>
73	Repeated Key Errors Locating Codes.	Abhishek Mudgal	<i>This research identifies a significant gap in traditional Error Control Coding (ECC) theory by shifting the focus from standard noise models to a more specific, real-world phenomenon: 2-repeated key errors.</i>
74	Application of Numerical Methods in Mathematical Modelling of Cancer Therapies.	Kamaldeep Bhatt	<i>This research provides a sophisticated mathematical approach to oncology by modelling the spatial and temporal "tug-of-war" between different cell populations during cancer treatment.</i>
75	Entropy-Based Feature Selection Using Mutual Information in Machine Learning.	Nakul Shah	<i>This study presents an entropy-based feature selection method aimed at enhancing classification accuracy in high-dimensional datasets.</i>

# B.Sc. (Hons.) with Mathematics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
76	Numerical Investigation of Excitonic States and Nonlinear Optical Response in Delta-Doped Multiple Quantum Wells.	Deepanshu	<i>This research proposes a quantum mechanical and numerical study of excitonic states in delta-doped multiple quantum wells (MQWs).</i>
77	A Study on Fundamental Concept of Modern Algebra in Mathematics.	Anshika kumari	<i>This paper explores the two pillars of abstract algebra: Groups, which model symmetry and transformation through a single operation, and Rings.</i>
78	A Study on Fundamental Concept of Modern Algebra in Mathematics.	Anshumaan Nath Choudhary	<i>This research addresses a fundamental question in machine learning: the precise mathematical relationship between the information a model learns and the errors it makes. By moving away from purely empirical observations, the study establishes a formal "physics of learning."</i>
79	Information-Theoretic Foundations of Gradient Descent: From Exact Dynamics to Practical Scaling Laws.	Sandeep Bhadu	<i>This analysis highlights the evolution of epidemiological modeling in the fight against HIV/AIDS, transitioning from basic transmission frameworks to complex systems that account for multi-generational disease spread.</i>
80	A Review of Mathematical Modelling of AIDS with Multiple Transmission Pathways.	Reena	<i>This research provides a comprehensive meta-analysis of epidemiological modeling, specifically evaluating how quarantine protocols and dynamic transmission rates have evolved to manage the COVID-19 pandemic.</i>
81	A Review of Mathematical Modelling of COVID-19 Epidemics: Structure, Dynamics, and Control.	Ankit Kumar	<i>This study provides a more nuanced and "realistic" approach to the Restricted Three-Body Problem (R3BP), moving away from idealized spherical masses to account for the actual physical shapes and radiative properties of celestial bodies.</i>
82	Approximation Theory	Ashirwad	<i>This research advances the Restricted Three-Body Problem (R3BP) by moving beyond the classical assumption of point-mass celestial bodies, incorporating complex physical shapes and external forces to better simulate real-world cosmic environments.</i>

## B.Sc. (Prog.) - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty /Supervisor/s	Synopsis
1	Polymer synthesis and its application.	Mohit	Dr. Prem Lata meena	<i>Polymers are important macromolecules widely used in industrial, electronic, and packaging applications due to their excellent physical and chemical properties.</i>
2	Synthesis, characterization and swelling studies of Psyllium and Polyacrylamide based hydrogels.	Aman kumar dubey	Dr.Sanjay Kumar	<i>This study focuses on the synthesis, optimization, and swelling behaviour of psyllium and polyacrylamide-based hydrogels prepared through the free radical polymerization method using APS as an initiator and NNMBA as a cross-linking agent.</i>
3	Degradation of Organic Pollutants Using Advanced Zn-Co-Based Nanocatalyst.	Shubhankar	Dr, Kanika Solanki	<i>This study focuses on the development of zinc-cobalt (Zn-Co) based bimetallic nanostructures for the efficient degradation of organic pollutants in wastewater. It highlights the environmental risks caused by industrial pollutants such as dyes, pharmaceuticals, and pesticides in aquatic systems.</i>
4	Title: Experimental and Theoretical Evaluation of Green Plant Extracts as Sustainable Inhibitors for Mild Steel in Acidic Solutions.	Mansi Sharma	Dr Ompal Singh Yadav	<i>This study explores the use of phytochemicals from the aerial prop roots of the Ficus benghalensis as a green corrosion inhibitor for mild steel in sulfuric acid solution. The plant extract, obtained using ethanol through Soxhlet extraction, showed corrosion inhibition properties due to the presence of active phytochemicals.</i>
5	Synthesis and Mechanistic Evaluation of Schiff Base compounds as a green Corrosion Inhibition for Mild Steel in acidic medium.	Bhaskar Gupta	Dr Ompal Singh Yadav	<i>An Eco-friendly corrosion inhibitor synthesized namely 1-(4-methoxybenzylidene) thiourea (L-1) its corrosion-resisting performance investigated on MS in 0.5 M sulphuric acid solution. The rate of corrosion was evaluated using the weight loss method.</i>
6	Photocatalytic Dye Degradation using ZnO/Porphyrin Nanohybrids: A Study of Green Technology Application.	Anushikha	Dr. Padma Dechan	<i>This study focuses on the green synthesis of porphyrins and zinc oxide (ZnO) nanoparticles for the photocatalytic degradation of toxic dyes such as Rhodamine B under sunlight irradiation. It highlights the environmental risks posed by industrial dye pollutants and explores eco-friendly methods for wastewater treatment.</i>
7	Green Corrosion Inhibitors	Bhumi Gupta	Prof. Arkaja Goswami	<i>This study explores the use of leaf extracts from Kalanchoe pinnata, Mimosa elengi, and Sanchezia nobilis as green corrosion inhibitors for iron in sulfuric acid solution. The extracts were prepared through maceration and studied as eco-friendly methods for reducing metal corrosion.</i>
8	Mechanochemical synthesis of metal complexes: Green chemistry approach.	Aman Rathi	Prof. Ashu Gupta	<i>This study focuses on the solvent-free mechanochemical synthesis of transition metal complexes with benzimidazole. Various characterization techniques, including UV - Visible and IR Spectra analysis, were used to study the properties of the synthesized complexes.</i>

## B.Sc. (Prog.) - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty /Supervisor/s	Synopsis
9	Combined Experimental and DFT Insights into the Electronic and Antioxidant Behaviour of Curcumin–Metal Complexes.	Sumit Kharwar	Dr. Ankit Mittal	<i>This review highlights recent experimental and DFT studies on curcumin-based compounds, including Schiff bases, metal complexes, and functional derivatives. It focuses on their electronic, antioxidant, and biological properties.</i>
10	Optical Limiting Effect and Nonlinear Optical Performance of Chalcone-Based Compounds.	Ravi Kant	Dr. Ankit Mittal	<i>This review provides an overview of the nonlinear optical (NLO) and optical limiting (OL) properties of chalcone derivatives reported between 2015 and 2025.</i>
11	Study of Green Solvents on DNA.	Ravi Narayan Jena	Dr. Kavita Yadav	<i>This study highlights the use of sustainable “green” designer liquids as alternatives to conventional toxic chemicals for DNA processing and storage. It focuses on improving long-term DNA stability while reducing environmental pollution and molecular damage.</i>
12	Syntheses, Crystallographic Elucidations and Spectroscopic Studies of a Meso-Tri-substituted Porphyrinic Dye.	Aditya Raj Verma	Dr. Padma Dechan	<i>This study focuses on the synthesis, structural characterization, and photophysical investigation of metal-free porphyrinic dyes and their metal derivatives. It also explores their light-absorption properties and crystal structure analysis using X-ray crystallography.</i>
13	Centralized Multi-outlet Restaurant Management System.	Arun Kumar	Mr. Parveen Kumar	<i>This project focuses on a centralized system to manage multiple restaurant outlets efficiently. It integrates ordering, billing, inventory, and reporting in real time. The system improves coordination and ensures smooth operations across all branches.</i>
14		Aniket Tyagi		
15	Tryon genie	Riya Singh	Dr. Neelam Dabas	<i>This project focuses on developing “Tryon Genie,” a system that allows users to virtually try on products before purchase. It enhances the online shopping experience by providing realistic visualization. The system aims to improve customer satisfaction and reduce return rates.</i>
16		Mahesh Sharma		
17		Shruti Kushwaha		
18	Duventra: The event information provider.	Yogesh Tomar	Dr. Sushil Kumar	<i>This project focuses on “Duventra,” an event information provider system that helps users discover and access details about various events in one platform. It centralizes event listings, schedules, and updates for better accessibility. The system improves event awareness and user engagement.</i>
19		Vineet Kumar Maurya		
20		Sarfia		

## B.Sc. (Prog.) - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty /Supervisor/s	Synopsis
21	College Employee Management System (EMS).	Ankit Rajbhar	Dr. Pranav Dass	<i>This project focuses on a College Employee Management System (EMS) designed to manage employee records efficiently. It handles staff details, attendance, payroll, and departmental information in a centralised platform.</i>
22		Shyam Narayan		
23	Offline AI Powered Sign Language Translation System for Edge Devices.	Ashok Kumar	Dr. Neelam Dabas	<i>This project focuses on an offline AI-powered sign language translation system for edge devices. It converts sign language gestures into text or speech without requiring internet connectivity.</i>
24	Enhancement of Germination Rate of Cicer Arietinum (Chick Pea) by UV-C exposure.	Manas Kandwal	Prof. Vijay Kumar Sharma	<i>This laboratory study provides a detailed analysis of how varying durations of ultraviolet-C (UV-C) exposure act as a catalyst or a stressor for the early developmental stages of chickpea (Cicer arietinum) seeds.</i>
25	Numerical Investigation Of Excitonic States and Nonlinear Optical Response in Delta-Doped Multiple Quantum Wells.	Deepanshu Lal	Dr. Monica Gambhir	<i>This computational study explores the high-precision manipulation of light-matter interactions within <math>\delta</math>-doped multiple quantum wells (MQWs).</i>
26	A comparative study of Bulk and thin-film electrode $\text{PrBaCo}_2\text{O}_{6-\delta}$ for electrochemical applications.	Priyanshu Kumar	Dr. Ajay Shankar Bangwal	<i>A comparative study of Bulk and Thin-Film Electrode <math>\text{PrBaCo}_2\text{O}_{6-\delta}</math> for electrochemical applications synthesized via physical vapor deposition.</i>
27	Calculation of excitation energies and transition data of $\text{Ag XLIV}$ .	Aditi Singh	Dr. Ravinder Kumar	<i>This research provides high-precision atomic data for <math>\text{Ag XLIV}</math> (Beryllium-like Silver), a highly ionised state where the silver atom has been stripped of 43 electrons.</i>
28	Computational Evaluation of the Second Virial Coefficient of Ammonia Vapour Using the 28-7-3 Potential Model.	Kumar Mangalam	Dr. Ravindra Kumar	<i>Computational Evaluation of the Second Virial Coefficient of Ammonia Vapour Using the 28-7-3 Potential Model</i>
29	Study of the impact of emerging technologies addition on the NASDAQ index using the econophysics model.	Chetan Sharma	Prof. Vijay Kumar Sharma	<i>This research utilizes Econophysics to deconstruct the "DNA" of market volatility, specifically targeting the NASDAQ Index as a proxy for global innovation and high-growth sectors.</i>
30	Carrier concentration modulated enhanced thermoelectric performance in Sr-doped CaTe.	Tanisha Tomar	Dr. Pradeep Kumar Sharma	<i>In the present work the electronic, mechanical elastic thermodynamic and thermoelectric properties of Sr Doped CaTe have been studied using first principle DFT methods as implemented in WIEN2K code.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
1	Atmanirbhar Bharat: projecting its soft power to become Vishwaguru in South Asia.	Summiyah parveen	<i>The study finds that Atmanirbhar Bharat strengthens India's soft power through self-reliance in key sectors like DPI, education, vaccines, and space technology. It positions self-reliance as global engagement rather than isolation. Overall, it enhances India's role as a regional leader and "Vishwaguru."</i>
2	Reservation, Merit and Economic Development in India.	Rajkumar Malviya	<i>The study finds that reservation in India improves access to education and jobs for SCs, STs, and OBCs but does not fully reduce broader inequalities. Under-representation in elite positions still persists, raising debates on merit and affirmative action.</i>
3	Global Economic Shocks and the Depreciation of the Indian Rupee.	Anjali Chauhan	<i>The study finds that Indian rupee depreciation is mainly driven by global shocks like trade tensions, geopolitical risks, and a stronger US dollar. Capital flows and global risk aversion further increase exchange rate volatility.</i>
4	Barriers to Consumer Adoption of Electric Vehicles in Urban India: Towards Inclusive and Sustainable Mobility under Viksit Bharat@2047.	Jiya Sharma	<i>The study finds that high cost, limited charging infrastructure, and concerns about battery life and resale value are key barriers to EV adoption in urban India. Despite environmental awareness, practical constraints limit uptake of both two- and four-wheelers.</i>
5	Social Media, Youth Voice and Political Participation: Digital Narratives and India's Democratic Image.	Miss Darshana Hazarika	<i>The study finds that social media boosts youth political awareness and expression in India through digital democracy.</i>
6	Role of Geopolitical Risk in Foreign Direct Investment.	Anshul	<i>The study finds that rising geopolitical risk reduces FDI inflows, especially in developing economies like India. Using a systematic literature review, it highlights a strong link between instability and reduced investment.</i>
7	Isolation, Characterization, Antibiotic Sensitivity, and Dye Degradation Capacity of Bacteria isolated from College Campus.	Sweta	<i>The study isolates environmental bacteria from a college campus and examines their antibiotic sensitivity and diversity. Selected strains show effective Congo Red dye degradation, confirmed through UV-Vis and GC-MS analysis.</i>
8	Navigating the Growth-Sustainability Paradox: How Governance, Education, and Urbanization Shape India's Environmental Kuznets Curve.	Suhani Jain	<i>The study confirms the Environmental Kuznets Curve (EKC) in India, showing a nonlinear link between income and CO<sub>2</sub> emissions. It finds that FDI and energy use increase emissions, while institutions, education, and urbanisation support sustainable transition.</i>
9	Collagen extraction from fish waste: toward sustainable waste management.	Hanshika	<i>The study examines collagen extraction from fish waste as a sustainable alternative to mammalian sources. It highlights that extraction methods affect yield and quality, with fish collagen showing strong biomedical potential.</i>
10	Cypermethrin-induced alteration in spleen of <i>Clarias gariepinus</i> .	Palak Bhadana	<i>The study finds that cypermethrin exposure in <i>Clarias gariepinus</i> causes severe spleen damage, reducing immune function and disrupting blood formation. It leads to disease vulnerability, growth impairment, and ecological imbalance.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
11	Assessment of customer satisfaction of digital banking.	Shivam Tyagi	<i>The study finds that digital banking improves customer satisfaction through factors like service quality, trust, security, and ease of use. It shows a strong link between adoption and customer loyalty. Overall, it highlights the need to enhance awareness, security, and user experience.</i>
12	Cypermethrin induced alternations in head kidney and liver.	Juhi yadav	<i>The study examines the toxic effects of cypermethrin in Clarias gariepinus, showing bioaccumulation that causes liver and kidney damage. It leads to immune and neurological dysfunction even at low levels. Overall, it highlights the ecological risks of pesticide pollution and the need for stricter regulation.</i>
13	Atmanirbhar bharat: re-engineering routes to be the vishwaguru.	Saloni Sharma	<i>The study examines the Atmanirbhar Bharat initiative aimed at strengthening India's self-reliance in key sectors like manufacturing, agriculture, defence, and MSMEs. It promotes domestic production through policies like Make in India and Vocal for Local. Overall, it aligns with Viksit Bharat 2047 to enhance economic resilience and global leadership.</i>
14	Exploring Trigger Warnings for Suicide and Self-Harm Related Content.	Avleen Sethi	<i>The study finds that Indian media often portrays suicide without trigger warnings, increasing harmful effects while limiting youth perspectives. It shows that responsible reporting can reduce risks and improve mental health outcomes. Overall, it calls for stronger guidelines and safer, youth-inclusive media practices.</i>
15	Exploring Trigger Warnings for Suicide and Self-Harm Related Content in Indian Media.	Parikipand la sri gouri aalaya	<i>The study finds that Indian media often portrays suicide without trigger warnings, increasing harmful effects while marginalizing youth voices. It highlights that responsible reporting can reduce risks through safer, recovery-focused narratives. Overall, it calls for stronger guidelines and youth-inclusive media practices.</i>
16	IPO Performance in India: Listing Day Gains v/s Long Term Growth.	Shreya Bora	<i>The study finds that Indian IPOs show strong listing-day gains due to underpricing and market optimism after COVID. However, long-term performance is mixed, with many underperforming key indices. Overall, it highlights that sustained IPO success depends on fundamentals and market conditions.</i>
17	Social Media, Youth Voice and Political Participation: Digital Narratives and India's Democratic Image.	Darshana Hazarika	<i>The study finds that social media shapes youth political participation in India by increasing awareness and expression through digital platforms. However, its impact on offline participation remains limited and complex. Overall, it supports a participatory digital culture alongside traditional political systems.</i>
18	Marketing Logistics and Consumer Behaviour: An Empirical Study on Indian e-shoppers.	Sehaj Grover	<i>The study finds that marketing logistics strongly influence consumer behaviour in e-commerce through delivery, packaging, tracking, and return services. It shows a strong link between logistics performance and repeat purchases. Overall, it highlights supply chain management as key to improving trust and e-commerce growth.</i>
19	Entrepreneurial Ecosystems and Circular Economy: Bibliometric Insights for Viksit Bharat.	Mandeep	<i>The bibliometric analysis shows that research on entrepreneurial ecosystems and the circular economy is rapidly growing, driven by innovation, digitalization, and collaboration. It finds that circular entrepreneurship depends on ecosystem-level support rather than individual firms. Overall, it highlights the need for stronger theoretical frameworks and policy alignment.</i>
20	Comparative Study of Option Trading Strategies under Different Time-Based Scenarios: Evidence from Nifty 50 Options.	Isha Khara	<i>The study finds that the profitability of Nifty 50 option strategies varies across different timeframes. It shows that no single strategy performs consistently, and outcomes depend more on timing than pricing models. Overall, it highlights the importance of time-specific strategy selection in options trading.</i>

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S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
21	Impact of social media thrift stores on purchase intention among generation z in India.	Ritu vipin	<i>The study finds that social media thrift stores strongly influence Gen Z purchase intention in India. Convenience, trust, and uniqueness matter more than price. Overall, it highlights that experience and reliability drive Gen Z buying behaviour.</i>
22	AI-Driven Forensic Accounting: Machine Learning Models for Early Detection of Financial Fraud in MSMEs.	Akash Nandy	<i>The study proposes an AI-driven forensic accounting model for early fraud detection in MSMEs using machine learning techniques. It combines supervised, unsupervised, and anomaly detection methods to identify suspicious financial patterns. Overall, it enables real-time monitoring and timely fraud prevention.</i>
23	AI-Driven Forensic Accounting: Machine Learning Models for Early Detection of Financial Fraud in MSMEs.	Aaditya asthana	<i>The study proposes an AI-driven forensic accounting model for MSMEs using machine learning for early fraud detection. It combines supervised, unsupervised, and anomaly detection techniques to identify suspicious financial patterns. Overall, it enables real-time risk scoring and timely fraud prevention.</i>
24	Artificial Intelligence in Education: A Quantitative Exploration of AI Dependency and Academic Functioning in College Students.	Roshni Roy	<i>The study finds that AI dependency among Indian college students is linked to higher academic anxiety but not to academic self-efficacy. It suggests AI use is driven more by stress than confidence. Overall, it highlights AI's role in shaping student academic behaviour.</i>
25	Performance of Mutual Fund in different Market Phases.	Pragati Soni	<i>The study evaluates mutual fund performance across pre-, during, and post-COVID phases using equity schemes. It analyzes returns and risk metrics to assess performance differences across categories. Overall, it highlights variations in risk-adjusted returns to support better investment decisions.</i>
26	Role of Behavioural Economics in Digital Fraud Prevention in India.	Sehaz Nagpal	<i>The study finds that behavioural biases increase vulnerability to digital fraud in India's digital payments system. It shows that authority, urgency, and social proof strongly influence user decisions, while targeted warnings can reduce fraud risk. Overall, it calls for context-specific fraud prevention strategies.</i>
27	Analysis of Financial Literacy and Financial Behaviour among University of Delhi students.	Kashish Chhoti	<i>The study finds a gap between financial literacy and actual financial behaviour among Gen Z students at the University of Delhi. Even financially knowledgeable students show weak saving habits and impulsive spending. Overall, social media and lifestyle pressures weaken sound financial decision-making.</i>
28	A Comparative Impact Assessment of the BBBP Initiative on Women Empowerment.	Shalu	<i>The study finds that the Beti Bachao Beti Padhao initiative improves women's empowerment through better education, gender equality, and socio-economic development. However, regional disparities remain due to uneven implementation and awareness. Overall, its impact depends on stronger execution and targeted policies.</i>
29	Exploring digital literacy among banking customers: A study of user experiences.	Mahak Malani	<i>The study finds that digital literacy strongly improves customer experience in digital banking by increasing trust, confidence, and usage. Low literacy users, especially elderly customers, face challenges like usability issues and security concerns. Overall, it highlights the need for better training and user-friendly systems to improve financial inclusion.</i>
30	Role of India in UN peacekeeping : Women peacekeepers from the Global South.	Nyeisha Thiyam	<i>The study finds that India's UN peacekeeping participation strengthens its global influence, soft power, and leadership in the Global South. It highlights the role of gender-inclusive deployments in improving trust and inclusivity. Overall, it positions India as a key player in inclusive global governance.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
31	Sectoral Impact of U.S. Tariff Policies on India's Export Performance.	Deepika Chaudhary	<i>The study finds that U.S. tariffs moderately reduce India's export performance across key sectors like textiles, gems, and pharmaceuticals. However, exchange rates and GDP help offset these effects. Overall, it highlights that structural competitiveness drives long-term export sustainability.</i>
32	Productive and Export Performance of the Indian Computer and Electronics Industry: A Stochastic Frontier Analysis.	Swati	<i>The study finds significant variation in technical efficiency within India's Computer and Electronics manufacturing sector, indicating uneven resource use and productivity. It shows decreasing returns to scale and a strong link between efficiency and export performance. Overall, it highlights the importance of technology upgradation and policy support for global competitiveness.</i>
33	"Youth, Governance and the Road to Viksit Bharat.	Tanya chaudhary	<i>The study finds that youth-led innovation improves governance efficiency and policy implementation in India. It highlights the role of digital governance, startups, and social entrepreneurship in increasing citizen participation. Overall, it emphasizes stronger policy support to fully utilize youth potential for sustainable growth.</i>
34	Digital Revolution and Rewriting of Financial Narratives for a Viksit Bharat: A Special Emphasis on Fintech Frontier.	Mahi Gangwar	<i>The study finds that digitalisation has boosted digital payment adoption in India, especially through UPI and fintech growth. However, cash usage remains high due to literacy gaps and security concerns. Overall, it highlights the need for inclusive fintech strategies for a less-cash economy.</i>
35	Youth-Led Green Entrepreneurship and Climate Responsibility: Catalysing India's Just Transition towards Viksit Bharat 2047.	Surbhi Sahni	<i>The study finds that youth-led green entrepreneurship supports India's transition toward sustainable development and job creation. It highlights growth in climate-tech startups and renewable energy but notes challenges like finance gaps and skill shortages. Overall, it calls for a structured framework to support inclusive green growth and Viksit Bharat 2047.</i>
36	Youth-Led Green Entrepreneurship and Climate Responsibility: Catalysing India's Just Transition towards Viksit Bharat 2047.	Chetna Sahni	<i>The study finds that youth-led green entrepreneurship drives India's sustainable transition and job creation. It highlights rapid growth in climate-tech startups and renewable energy, alongside challenges like finance gaps and skill shortages. Overall, it calls for a Green Youth Enterprise Framework to support inclusive green growth and Viksit Bharat 2047.</i>
37	Board composition and CSR committee influence on CSR expenditure.	Himanshi	<i>The study finds that board composition and CSR committee structure significantly influence CSR spending in Nifty 500 companies. It shows that strong governance and active CSR committees improve social and environmental responsibility. Overall, it highlights the role of corporate governance in supporting sustainable development.</i>
38	Impact of Energy Security on Geo-political Realignment to achieve Goldilocks Economy.	Stuti Jain	<i>The study finds that geopolitical tensions and oil price volatility strongly impact India's economy through inflation, investment flows, and market instability. It highlights India's vulnerability as an oil-importing nation, affecting growth and stability. Overall, it emphasizes renewable energy and innovation for energy security and sustainable growth.</i>
39	Impact of the National Education Policy (NEP 2020) on Financial Literacy and Skill Development: A Study among Commerce and Non-Commerce Students of the University of Delhi.	Akansha Tiwari	<i>The study finds that India's startup ecosystem has grown rapidly due to initiatives like Startup India and stronger IP frameworks. It highlights increased innovation, patents, and growth in knowledge-based sectors. Overall, it emphasizes strengthening IP governance to support inclusive, innovation-led development and Viksit Bharat 2047.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
40	Start up India to Viksit Bharat 2047: The Analysis of Knowledge Management and Intellectual Property in the Development of the Innovation-Led Entrepreneurship Ecosystem in India.	Abhineet Kumar	<i>The study finds that India's startup ecosystem has expanded significantly due to Startup India and strong IP frameworks. It highlights growth in innovation, patents, and knowledge-based industries.</i>
41	Impact of eco-friendly packaging on consumer Behaviour- an extensive study of Gen z at delhi- unversity.	Karuna, shalini and mehak	<i>The study finds that Gen Z consumers at the University of Delhi are highly aware of eco-friendly packaging due to social media influence. However, buying decisions are driven more by price, quality, design, and brand trust.</i>
42	Viksit Bharat 2047: Reimagining India's Future Through Its Youth.	Skand Gupta	<i>The study finds that Indian youth are key drivers of Viksit Bharat 2047 through innovation, entrepreneurship, and participation. It highlights the importance of skill development and empowerment to harness the demographic dividend.</i>
43	Students' Perspectives on NEP 2020, Skill Development, and Employability Readiness: Evidence from the University of Delhi.	Keshav Choudhary	<i>The study finds that NEP 2020 reforms at the University of Delhi have a limited impact on skill development and employability. It shows a moderate link between skills and job readiness but highlights gaps in practical learning and industry exposure.</i>
44	Stock market and macroeconomic variables: evidence from India.	Ritika	<i>The study finds that key macroeconomic factors like inflation, interest rates, exchange rates, and GDP significantly affect BSE Sensex performance. It shows strong links between macroeconomic stability and market returns and volatility.</i>
45	The Role of Digital Payments in Promoting Financial Inclusion in India: An Analysis of Gender Disparities.	Aayushi Bhardwaj	<i>The study finds that digital payments improve financial inclusion in India but adoption varies across gender, income, and education levels. It highlights a significant gender gap due to low digital literacy and access constraints. Overall, it calls for targeted policies to ensure inclusive financial participation.</i>
46	Beyond the deal: how post-merger integration and budgeting shape financial and operational outcomes in banking and corporate m&a in emerging economies.	Mahek Dhingra	<i>The study finds that post-merger integration is key to successful M&amp;A outcomes, as poor integration reduces synergies and efficiency. It highlights the importance of financial planning and operational alignment during the integration phase.</i>
47	Comparative Analysis of Financial Performance and Service Quality: A Study of SBI (Public Sector) and ICICI Bank (Private Sector).	Manas malik	<i>The study finds that ICICI Bank outperforms SBI in profitability, efficiency, and asset quality, while SBI leads in financial inclusion and stability. It highlights that ownership structure influences bank performance.</i>
48	Financial & Non- Financial Incentive Structure and its impact on Gen-Z Employee Motivation: A Study of the Select Organisations.	Jatin Malik	<i>The study finds that both financial and non-financial incentives influence Gen Z motivation in the IT sector. It shows that career growth, work-life balance, and recognition are as important as salary and bonuses.</i>
49	Comparative Study of Maharatna & Navratna Companies.	Sahil Mahajan	<i>The study finds a CSR utilisation gap in Maharatna and Navratna PSUs, where higher funds do not always lead to better impact. It shows that CSR decisions often favour short-term projects over long-term development.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
50	Impact of the financial innovation on the performance of the bank and financial experience of the customer.	Ritik sapra	<i>The study finds that key macroeconomic variables significantly affect BSE Sensex performance from 2001–2025. It shows strong links between macroeconomic stability, market returns, and volatility.</i>
51	Synergy or Strain? A Comparative Study of Financial Outcomes in Co-Branded Card Alliances.	Taranjeet Singh	<i>The study finds that co-branded credit cards have boosted India's credit card market by increasing usage, spending, and customer engagement. It highlights strong growth driven by partnerships with e-commerce, travel, and retail sectors.</i>
52	Consumer Awareness and Ethical Considerations in Purchasing Cosmetic Products in India.	Geet Verma	<i>The study finds a gap between ethical awareness and actual buying behaviour in Indian consumers of cosmetics. It highlights that price, trust issues, and greenwashing concerns strongly influence purchase decisions.</i>
53	Tourism in Ladakh: Growth impacts and challenges of sustainable development.	Stanzin Oathsal	<i>The study finds that tourism in Ladakh has boosted economic growth and employment but also created environmental challenges like waste and water scarcity. It highlights rapid development, especially in Leh, as a key driver of these issues.</i>
54	Workforce Diversity and Organizational Effectiveness: Leveraging Youth Skills in Building India's Knowledge Economy for Global Competitiveness.	Neeshu kumari	<i>The study finds that workforce diversity significantly impacts organizational performance and employee satisfaction in the North Delhi/NCR region. It highlights both benefits like innovation and challenges such as communication gaps.</i>
55	Assessing the Opportunities and Challenges of Green Finance.	Pratyush kumar das	<i>The study finds that green finance is becoming important for sustainable economic growth and environmental protection. It highlights increasing corporate focus on sustainability through global indices and frameworks.</i>
56	Working Capital Management of HDFC Bank Ltd.	Gaurisha Goel	<i>The study finds that foreign institutional investors significantly affect market liquidity, volatility, and price movements in India. It highlights that FII flows are sensitive to geopolitical and economic conditions.</i>
57	Foreign Institutional Investors and Market Dynamics.	Vaibhav Mittal	<i>The study finds that foreign institutional investors significantly influence market liquidity, volatility, and price movements in India. It highlights that FII flows are highly sensitive to geopolitical and economic conditions.</i>
58	Behavioral Biases in Employees' Decisions Making it in an organisation: An empirical analysis.	Shriyanshi Pal	<i>The study finds that behavioural biases like overconfidence, anchoring, and loss aversion affect employee decision-making and reduce performance. Statistical analysis confirms a strong link between cognitive biases and decision outcomes.</i>
59	Comparative analysis of Investment Returns: From Tradition to Technology to Troubling times.	Tanishq Sehgal	<i>The study finds that market-linked investments offer higher long-term returns but come with greater risk and volatility. It shows that traditional instruments provide safety but lower returns.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
60	The strategic efficacy of Influencer marketing.	Vidushi Yadav	<i>The study finds that influencer marketing is more effective for long-term brand growth than short-term engagement metrics. It highlights the importance of authenticity, alignment, and trust in ensuring success. Overall, micro and nano influencers deliver higher engagement and ROI in niche markets.</i>
61	Dark patterns in digital marketing.	Mudit chawla	<i>The study finds that dark patterns in digital marketing manipulate consumer behaviour by exploiting cognitive biases. It shows that these practices reduce trust and lead to impulsive or unintended purchases. Overall, it highlights the need for stronger regulation, transparency, and consumer awareness.</i>
62	Empirical analysis of non-banking financial companies.	Sonalika Upadhyay	<i>The study finds that NBFCs significantly support financial inclusion and MSME growth in India. It shows that while NBFC assets are growing, asset quality concerns and sector consolidation remain challenges. Overall, it emphasizes stronger regulation and risk management for sustainable growth.</i>
63	From Likes to Purchases: The Influence of Social Media Influencers on Generation Z Buying Behavior.	Kundan kumar	<i>The study finds that social media influencers strongly influence Gen Z buying behaviour through engagement and trust. It highlights that authenticity, relatability, and expertise shape purchase decisions. Overall, it shows that digital marketing often drives both informed and subconscious purchases.</i>
64	Ephemeral Marketing: A Literature Review.	Ayush Jaiswal	<i>The study finds that ephemeral marketing increases engagement and speeds up consumer decisions through urgency and FOMO. However, it raises ethical concerns around manipulation, reduced autonomy, and privacy. Overall, it may also negatively affect mental well-being and encourage compulsive consumption.</i>
65	Compassionate leaders: Shaping the world dynamics.	Ishan Gupta	<i>The study finds that compassionate leadership reduces burnout, stress, and employee turnover. It is especially effective during crises by promoting unity and resilience. Overall, it supports employee engagement and sustainable, human-centric organizational growth.</i>
66	Fixed income	Sanchit Chawla	<i>The study finds that different fixed-income bonds show varying risk and return profiles due to embedded options. It highlights the importance of tools like yield curves, duration, and YTM for accurate valuation and risk assessment. Overall, it emphasizes integrated analysis for better bond investment decisions.</i>
67	Mitigating counterfeiting of goods with scratch card based authentication.	Prerit Taneja	<i>The study finds that scratch-card authentication is a cost-effective way to reduce counterfeiting and improve product verification. It shows that consumers avoid counterfeit consumables and baby products due to higher perceived risk. Overall, it highlights that verification fatigue limits effectiveness, requiring simpler authentication methods.</i>
68	FDI Trends and in BRICS Economies: Evidence for India's Development Strategy.	Akshat bhaskar	<i>The study finds that FDI strongly supports economic growth in BRICS economies through technology transfer and global integration. It highlights that inflows vary based on infrastructure, governance, and economic stability. Overall, it emphasizes FDI's key role in India's development and competitiveness under Viksit Bharat.</i>
69	Sustainable Business Practices and Financial Performance: A Study of ESG, CSR, and SRI in India.	Shivam Gupta	<i>The study finds that ESG, CSR, and SRI generally have a positive or neutral impact on financial performance. It highlights inconsistencies due to measurement and data issues, especially in emerging economies. Overall, it emphasizes that strong ESG integration supports sustainable and resilient business growth.</i>

# Commerce - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Synopsis
70	Financial Literacy and Investment Behaviour among Young Working Professionals.	Divyansh Chaudhary	<i>The study finds that financial literacy strongly influences investment behaviour among young professionals. It shows that better financial knowledge improves decision-making and risk management.</i>
71	Digital India: Role of E-Wallets.	Durlabh Singhal	<i>The study finds that e-wallets support Digital India by increasing digital payments and reducing cash use. It shows adoption is driven by convenience, rewards, and smartphone access.</i>
72	Sustainable Investment Funds in India: An Evaluation of ESG Mutual Fund Performance.	Fauzan Masood	<i>The study finds that ESG mutual funds in India offer risk-adjusted returns similar to conventional funds while reducing volatility. It shows that ESG investing supports better risk management and long-term stability.</i>
73	intech Adoption and Bank Performance in India: A Post - UPI Causal Analysis.	Aryan Baghel	<i>The study finds that FinTech innovations like UPI, mobile banking, and neo-banks have improved efficiency and customer service in Indian banking. It shows that adoption enhances performance due to convenience and speed.</i>
74	Comparative Study of Traditional and Digital Marketing.	Deepanshu Rawat	<i>The study finds that FinTech innovations like UPI, mobile banking, and neo-banks improve efficiency and customer service in Indian banking. It shows that adoption boosts performance through convenience and speed.</i>
75	Impact of Fintech on Bank's Performance in India.	Keshav Wadhwa	<i>The study finds that FinTech improves efficiency, profitability, and financial inclusion in Indian banking. It shows both benefits and challenges, including better performance but higher costs and cybersecurity risks.</i>
76	Artificial Intelligence and Automation in Marketing.	Youngik Grover	<i>The study finds that AI and automation have transformed marketing into a data-driven function, improving personalization, targeting, and efficiency. It shows better decision-making and customer engagement, especially in digital ecosystems.</i>
77	How influencer marketing makes Gen'Z brand choices?	Suryansh raj	<i>The study finds that influencer marketing strongly influences Gen Z purchasing decisions through authenticity and emotional connection. It shows that both cognitive and emotional factors shape responses based on platform and influencer type.</i>
78	Consumer Perception of E-Commerce Discounts and Flash Sales in India.	Vipin Singh	<i>The study finds that discounts and flash sales in Indian e-commerce create both value and skepticism among consumers. It shows that urgency tactics drive impulse buying but can reduce trust and loyalty over time.</i>

## B.A. (Prog.) - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty /Supervisors	Synopsis
1	An Analysis of the Cashless Payment Transition in Delhi: Usage Patterns and Challenges Across Age Groups and Small Vendors.	Ammar M Sulaiman	Priyambada Gupta	<i>This study examines the growing use of UPI and digital payments in Delhi across different age groups and small vendors. It highlights changing payment behaviour and the challenges faced in adopting cashless transactions.</i>
2	Evaluating the Effectiveness of Single-Use Plastic Bans: A Comparative SWOT Analysis of Selected Countries.	Apoorva Singh	Mrs.Jyoti Atri	<i>This study evaluates the effectiveness of single-use plastic bans through a comparative SWOT analysis of selected countries. It highlights the role of technology, leadership, and public participation in implementing bans and finds that affordable alternatives and government support are key to their success.</i>
3	An analysis of Gold Monetisation Scheme(GMS).	Aryan bhardwaj	Ms Gunjan Khandelwal	<i>This study analyses the Gold Monetisation Scheme (GMS) in India, focusing on household awareness, participation, and barriers to investment. The findings show that low awareness, limited participation, and low returns are the key reasons behind the scheme's limited success.</i>
4	Indian household savings: composition of investment, cash holding, and debt dynamics (2018-19 to 2023-24).	Ayush Adhikari	Priyamvada Gupta	<i>This study examines the changing saving and investment patterns of Indian households from 2018–19 to 2023–24 using RBI data. It highlights the shift towards mutual funds and equity investments after COVID-19, along with rising household debt and declining net savings.</i>
5	Women participation in India, an analysis of the Lok Sabha elections.	Mahir Singh	Mrs Kavita Meena	<i>This study examines women's participation in Lok Sabha elections from 1957 to 2024 as voters and elected representatives. It analyses trends in voter turnout, political representation, and the influence of socio-economic factors, while highlighting the continued underrepresentation of women in Indian politics.</i>
6	MGNREGA Green Works as a Pathway to Environmental Development: Evidence from Uttar Pradesh.	Mandeep	Dr. Jyoti Atri	<i>This study examines the role of NRM activities under the Mahatma Gandhi National Rural Employment Guarantee Act in Uttar Pradesh. It highlights how these activities support livelihood security, ecological restoration, and sustainable "Green Work" for strengthening rural resilience and promoting a green economy.</i>
7	Gendered Dimensions of Crime in India: A State-wise Analysis of Conventional and Cybercrime Against Women.	Ritik Chouhan	Dr. Ashani Dhar	<i>This study analyses state-wise patterns of crimes against women and cybercrimes against women in India using NCRB data (2019–2023). It highlights the rise of online crimes with digitalisation and suggests that better education and digital access can help reduce such crimes.</i>
8	Analysis on Paper Gold Investment.	Tarun	Ms.Gunjan Khandelwal	<i>This study explores the awareness and investment behaviour of young adults in Delhi towards paper gold instruments such as Gold ETFs and Digital Gold. It finds that despite high awareness, investment participation remains low due to cultural preference for physical gold, limited financial knowledge, and risk perception.</i>

## B.A. (Prog.) - 4th Year

S.No.	Title of Research Project/ Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisors	Synopsis
21	Caste, Class and Colony: Tilak Nagar (West Delhi) — Refugee Rehabilitation and Social Inequality in Post-Partition Delhi (1947–1961).	Sahil Baderia	Dr. Upendra Kumar	<i>This dissertation examines the rehabilitation of Partition refugees in Delhi, with special focus on Tilak Nagar as a refugee colony. It studies how government policy, archival records, and newspaper sources shaped the settlement process after 1947. The work also explores how caste, class, gender, and memory influenced the lives of refugees and their adjustment in the new colony.</i>
22	Development of Dance and Drama in Awadh During Nawab Wajid Ali Shah (1847-1856).	Mohammad Niyaz	Dr. Upendra Kumar	<i>This dissertation shows how the culture in Awadh evolve dance and drama under the reign of Wajid Ali Shah with reference to the cultural vision art, Kathak and the court dance theatre influences aesthetic innovation and implicit cultural resistance.</i>
23	1857 की क्रांति : महिलाओं की भूमिका के सन्दर्भ में	Sonu Kumar	Mr.Sanoj kumar	यह शोध प्रबंध 1857 की क्रांति में महिलाओं की भूमिका का ऐतिहासिक विश्लेषण प्रस्तुत करता है। इसमें रानी लक्ष्मीबाई , बेगम हजरत महल, झलकारी बाई , ऊदा देवी, अजीजन बाई आदि वीरांगनाओं के योगदान तथा उनकी सैन्य, राजनीतिक व सामाजिक भागीदारी को औपनिवेशिक, राष्ट्रवादी व सबाल्टर्न इतिहासलेखन के संदर्भ में पुनर्मूल्यांकन किया गया है। प्रस्तुत अध्ययन महिलाओं द्वारा 1857 की क्रांति को व्यापक सामाजिक-राजनीतिक आंदोलन बनाने में महत्वपूर्ण भूमिका को रेखांकित करता है।
24	Cultural Heritage and Traditions of Bhil Community: (भील समुदाय की सांस्कृतिक विरासि और परंपराएँ)	Sanjan	Dr. Jitendra Kumar Meena	<i>Bhil tribe is one of the oldest indigenous communities in India, which lives in the central and western parts of the country and has a deep cultural background that is determined by the past experiences, geographical environment, and social structure. This paper will look at the Bhil community and its cultural practices, traditional knowledge systems and sustainable ways of living and how they are applicable in the modern environmental and social discussion.</i>

## B.A. (Hons.) History- 4th Year

S.No.	Title of Research Project/ Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
1	Journalism, Women Liberation and Indian Renaissance Revisiting the principle of Raja Ram Mohan Ray.	Shivani Mishra	Nishant Kumar Singh	<i>This study examines Raja Ram Mohan Roy's use of journalism to promote women's liberation and social reform during the Indian Renaissance.</i>
2	Education, Caste, and Gender: Savitribai Phule's Role in the Social Transformation in Colonial India.	Prerna Raj	Nishant Kumar Singh	<i>This dissertation examines Savitribai Phule's pioneering role in challenging caste and gender inequalities through education and social reform in 19th-century India.</i>
3	Sacred fire: A case study of Indus Valley civilization sites and Vedic literary references.	Priyanshi Varshney	Dr. Priyanka Thakur	<i>This dissertation provides a comparative analysis of fire worship practices in the Harappan Civilisation and the Vedic tradition.</i>
4	Gold coins in ancient India: Iconography in Indo-Greek, Kushan, and Gupta coinage.	Abhishek Srivastav	Dr. Priyanka Thakur	<i>This dissertation presents a comparative analysis of iconography in the coinage of three ancient Indian empires.</i>
5	Agriculture, Famine and Crisis of Income: Through the Lens of the Five Year Plan in India.	Shaurya Aditya	Dr. Pravin Kumar	<i>Majorly deal with how India with stand it's position after colonial rule.</i>
6	Jahangir: An Environmentalist	Priyanshu Kumar Tiwari	Pankaj Chaudhary	<i>This dissertation highlights Emperor Jahangir's environmental consciousness and his proactive conservation efforts compared to other expansionist rulers</i>
7	Kushan coins as political authority and religious syncretism.	Mayank Bhardwaj	D.r Dipak kumar shukal	<i>This study emphasizes the role of Kushan coinage in reconstructing the cultural, social, and political framework of the empire.</i>
8	रोकैया बेगम की कृतियों में नारीवादी स्वप्नलोक और सामाजिक अलोचना	Suraj	Ms Swati rathi	यह शोध बेगम रोकैया सखावत हुसैन के नारीवादी दृष्टिकोण और सामाजिक सुधारों में उनके योगदान का विश्लेषण करता है।
9	Role of Bhils in National Movement ( राष्ट्रीय आंदोलन में भीलों की भूमिका)	Ritesh kumar	Dr. Jitendra kumar meena	<i>This study reinterprets Indian nationalism from a Bhil perspective, highlighting their significant contributions to the freedom struggle.</i>
10	Dr B.R. Ambedkar as a historian and social analyst: a critical study.	Praneeta raj singh	Dr. Rohan Mandal	<i>This dissertation re-examines Dr. B.R. Ambedkar's intellectual legacy by analyzing his major writings and speeches on caste, democracy, and social justice.</i>

## B.A. (Hons.) History- 4th Year

S.No.	Title of Research Project/ Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
11	From harem to history: Evolving roles of Mughal royal women through Gulbadan Begum Nurjahan and Jahanara Begum.	Ziya Siddiqui	Prof Jaya kakkar	My research is a comparative study based on three royal mughal women from three generations.
12	Irrigation, Water Management and State Control Under Imperial Cholas w.r.t Kaveri Delta Region.	Ananthan.S	Dr.Rohan Mandal	This study examines how the Chola state utilized irrigation and water management in the Kaveri Delta to establish institutional control and centralize power.
13	कालिदास के नाटकों में नारी पात्रों के संवादों के माध्यम से गुप्तकालीन ( 4th से 5th शताब्दी ईस्वी) स्त्री - मानस और सामाजिक चेतना का ऐतिहासिक अध्ययन	Neha pal	Dr.Dipak kumar shukla	यह शोध प्रबंध कालिदास के नाटकों के माध्यम से गुप्तकालीन समाज में स्त्रियों की स्थिति का विश्लेषण करता है।
14	The role of British army in colonial India: A case study of Bhil and Meena corps.	Kanishka Yadav	Jitendra Kumar Meena	This dissertation examines the British colonial strategy of recruiting the Bhil community into the Mewar Bhil Corps and its socio-political impact.
15	Swami Vivekananda's Social Philosophy: A critical study of his views on Youth and Society.	Gudiya kumari	Ms.Swati Rathi	This dissertation critically examines Swami Vivekananda's social philosophy and his vision for youth as the primary catalysts for national and moral regeneration.
16	Vijaynagar empire: A critical analysis of archaeological remains at Hampi site.	Anurag Rai	Prof. Jaya Kakkar	This research analyzes the archaeological remains at Hampi to understand the political, cultural, and economic dynamics of the Vijayanagara Empire
17	Develop of education : A case study in colonial Delhi 1912-1947.	Roshni kumari	Mr.Sanoj kumar	This dissertation explores the development and transformation of education in Delhi following its establishment as the imperial capital in 1911.
18	The study of the National Education Policy 2020 in the context of Ambedkar's views and vision.	Niteesh	Ms. Swati Rathi	This study evaluates the National Education Policy 2020 through the lens of Dr. B.R. Ambedkar's vision for inclusive and empowering education.
19	ज्योतिबा फुले: विचार और राजनीति — 19वीं सदी में दलित अस्मिता का निर्माण	S P Vikas Manvi	Prof. Pravin Kumar	यह शोध प्रबंध 19वीं सदी के महाराष्ट्र में ज्योतिबा फुले के विचारों और सत्यशोधक आंदोलन के माध्यम से बहुजन चेतना के उदय का विश्लेषण करता है।
20	Changing Human–Nature Relations among Tribal Communities under Colonial Forest Policies (1818–1947).	Sunil Mishra	Pankaj Kumar Chaudhary	This study analyzes the transformation of tribal human-nature relations under colonial forest policies (1818–1947).

## B.A. (Hons.) Political Science- 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
1	Human Rights Violations in India: Patterns Drivers and Pathways to Remedy.	Raushani Singh	Dr. Srinivas Misra	<i>This study examines systemic human rights abuses in India, identifying key political and socio-economic drivers behind these persistent patterns.</i>
2	Geopolitical Dynamics of India- China Relations in South Asia.	Anchal Bharti	Dr. Niranjana Chichuan	<i>This analysis explores the strategic competition and shifting power balance between India and China as they vie for influence across South Asia.</i>
3	Evolving Geostrategic Relations Between India and Germany and Their Impact On India's Foreign Policy.	Chetna Gupta	Dr. Shraddhanand Rai	<i>This analysis investigates the transition of India-Germany relations from a primarily trade-centric partnership to a robust strategic and defense alliance.</i>
4	Study of freedom of speech and expression during the national emergency of 1975:a constitutional and political analysis.	Bhawesh	Mr. Sumit Kumar	<i>This study analyzes the suspension of civil liberties under the 1975 Emergency, focusing on the constitutional mechanisms that enabled state censorship and the suppression of dissent.</i>
5	Assessing the role of Artificial intelligence in Lok Sabha elections in India(2019 and 2024).	Abhinav Verma	Mr. Manish Kumar	<i>This study evaluates the technological shift in Indian democratic processes by comparing the integration of Artificial Intelligence (AI) across two consecutive general elections.</i>
6	Assessing the Effectiveness of In-Situ Slum Rehabilitation Policy: A Case Study of Bhoomiheen Camp, Kalkaji Extension, Delhi.	Kusha Sharma	Mr. Manish Kumar	<i>This study evaluates the In-Situ Slum Rehabilitation (ISSR) model by examining the transition of residents from the Bhoomiheen Camp to multi-story housing in Kalkaji, Delhi.</i>
7	जनजातीय विकास की पुनर्कल्पना और भारतीय ज्ञान प्रणाली : कल्याण से सशक्तीकरण की ओर	Gautam	Dr. Pawan Kharwar	यह शोध पत्र जनजातीय समुदायों के प्रति दृष्टिकोण में एक बड़े बदलाव का विश्लेषण करता है—जो पारंपरिक 'कल्याणकारी' (Welfare) मॉडल से हटकर 'सशक्तीकरण' (Empowerment) और भारतीय ज्ञान प्रणाली (IKS) पर आधारित है।
8	National Emergency of 1975 – 1977: A Critical Evaluation.	Garima Yadav	Dr. Shyam Sundar Prasad	<i>The study highlights the period as a pivotal lesson in the fragility of institutional checks and balances in Indian democracy.</i>
9	The Autonomy–Accountability Paradox: A Critical Study of Disciplinary Mechanism and Outcomes in Indian Higher Judiciary.	Tanisha	Dr. Deepak Kumar	<i>This research investigates the inherent tension between judicial independence and the necessity for institutional transparency within the Indian Higher Judiciary.</i>
10	The Corruption Equilibrium - An Analysis of People and their Leaders in Indian democracy.	Kanishk Singh Bohra	Dr. Rekha Kaushik	<i>This research explores the symbiotic relationship between political leadership and the electorate, analyzing corruption not as an isolated criminal act but as a stable "equilibrium" within Indian democracy.</i>

## B.A. (Hons.) Political Science- 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
11	Between Indigenous Assertions and Migrant Anxiety: Citizenship Questions in Tripura Under CAA.	Partha Pratim Kar	Prof. Sitaram Kumbhar	<i>This research examines the complex socio-political landscape of Tripura, where the implementation of the Citizenship Amendment Act (CAA) intersects with historical demographic shifts.</i>
12	Challenges Faced by Economically Weaker Section [EWS] Students in North Campus of Delhi University.	Pathuri Sri Harsha	Ms. Nandita Pal	<i>This research investigates how political parties influence social justice outcomes at the grassroots level, specifically within the socio-political landscape of Firozabad, Uttar Pradesh.</i>
13	The Role of Political Parties in Promoting Social Justice: A Case Study of Firozabad district of Uttar Pradesh.	Priybrat	Dr. Pawan Kharwar	<i>This study evaluates the influence of political parties on social justice within Firozabad, focusing on the mobilization of marginalized communities and local caste dynamics.</i>
14	Role of the election commission of India in ensuring free and fair elections.	Aditya Yadav	Dr. Shyam Sundar Prasad	<i>This study evaluates the Election Commission of India's (ECI) constitutional mandate to uphold electoral integrity through the enforcement of the Model Code of Conduct and the integration of technology like VVPATs.</i>
15	Student Politics in Delhi University- A Case Study of Shyam Lal College(2022-2025)	Nikhil	Mr. Sumit Kumar	<i>This study examines the dynamics of student activism and electoral politics at Shyam Lal College (SLC), Delhi University, during the post-pandemic recovery period. It analyzes the shifting influence of major student organizations like the ABVP and NSUI.</i>
16	Role of right to information act: a study of awareness and implementation challenges at panchayat level.	Uday	Ms. Nandita Pal	<i>This study evaluates the impact of the Right to Information (RTI) Act, 2005, on grassroots governance, specifically focusing on its role in enhancing transparency within the Panchayati Raj Institutions (PRIs).</i>
17	Farmer Produce Organisation In Focus_ Performance, Impacts, And Success Factors Of Five Organizations Across India.	Ayush Raj	Dr. Shraddhanand Rai	<i>This research provides a comparative analysis of five Farmer Producer Organizations (FPOs) across diverse Indian states to evaluate their role in transforming the agrarian landscape.</i>
18	Reassessing India's Role in post-Taliban Afghanistan – Balancing security, development and diplomacy.	Aman Rawal	Dr. Pawan Kharwar	<i>This research examines the strategic recalibration of India's foreign policy in the wake of the Taliban's return to power in August 2021. It analyzes the complex challenge of balancing national security interests.</i>
19	Human Footprints And Climate Change: A Study on consumption Patterns and Morality.	Gyanendra Upadhyay	Prof. Sitaram Kumbhar	<i>This research explores the ethical and ecological implications of individual and collective "human footprints" in the context of the accelerating climate crisis. It examines how modern consumption patterns.</i>
20	Emergence of dalits in politics: a study of uttar pradesh.	Nishant Tomar	Mr. Sumit Kumar	<i>This research examines the socio-political evolution of the Dalit community in Uttar Pradesh, tracing their transition from a "silent vote bank" to a dominant political force.</i>

## B.A. (Hons.) Political Science- 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
21	Political representation of women in Nagaland: challenges and prospects.	Thunagshant hung Shitiri	Dr. Shyam Sundar Prasad	<i>This research explores the historical and contemporary landscape of female political participation in Nagaland, a state that only elected its first women MLAs in 2023.</i>
22	A Comparative Study of Federal Structure of India and Canada.	Aman Tiwari	Dr. Niranjan Chichuan	<i>This study explores the "colonial kinship" between the Indian and Canadian constitutional frameworks.</i>
23	Reassessing the Mahatma: A Feminist Analysis of Gandhi's Thought on Women and Its Enduring Influence.	Payal Drall	Ms. Nandita Pal	<i>This research provides a critical evaluation of Mohandas Karamchand Gandhi's philosophy through the lens of feminist theory, navigating the paradox of his "feminine" political methods and his traditionalist views on gender roles.</i>
24	Decolonizing International Relations: Reinterpreting Realism through Kautilya's Mandala Theory.	Aditya Tripathi	Mr. Nartam Vivikanand Motiram	<i>This research seeks to decolonize the field of International Relations (IR) by challenging the Eurocentric dominance of "Classical Realism" and re-centering ancient Indian political thought.</i>
25	India-USA relations under the Modi government: cooperation, challenges and strategic autonomy.	Dev Pandey	Mr. Nartam Vivikanand Motiram	<i>The relationship between India and the United States under the Modi administration has transitioned from a "thaw" to a comprehensive Global Strategic Partnership.</i>
26	Integrating youth perception towards air pollution into policy action : a case study of winter pollution in Delhi.	Aryan Jain	Mr. Nartam Vivikanand Motiram	<i>This research investigates the critical gap between the environmental awareness of the youth and the formal policy-making process regarding Delhi's perennial winter air pollution crisis.</i>
27	Changing landscape of indian secularism: institutional, social, and political challenges.	Abhishek Dubey	Dr. Deepak Kumar	<i>This research examines the conceptual and structural shift of Indian Secularism from its constitutional ideal of Sarva Dharma Sambhava (equal respect for all religions) to its contemporary state of crisis.</i>
28	Ambedkar's Annihilation Of Caste And its Contemporary Relevance.	Shruti kumari	Dr. Rekha Kaushik	<i>This research provides a critical analysis of B.R. Ambedkar's seminal work, Annihilation of Caste (1936), evaluating its transition from a suppressed speech to a foundational text for social justice.</i>
29	Digital Campaigning and Populist Political Mobilization in India's Electoral Politics in 21st century.	Suhana Malik	Mr. Manish Kumar	<i>This research analyzes the symbiotic relationship between digital technology and populist rhetoric in the evolution of Indian elections during the 21st century.</i>
30	Governing Waste Management: Enhancing Waste Segregation via Enforcement and Incentives in Delhi and Montreal.	Kunal Singh	Prof. Sitaram Kumbhar	<i>This research presents a comparative analysis of urban governance strategies in Delhi and Montreal, focusing on the efficacy of policy instruments used to drive household-level waste segregation.</i>
31	Impact of social media on youth voting behaviour in India (2014-24).	Dimple	Dr. Srinivas Misra	<i>This research investigates the transformative role of digital platforms in shaping the political consciousness and electoral participation of young Indian voters over the last decade.</i>

# B.A. (Hons.) English- 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
1	The Film as Mirror: Psychological Struggles of Youth in Chhichhore and Tamasha.	Supriya	Dr. Amit Kumar	<i>This study explores how Chhichhore and Tamasha represent the psychological struggles of youth through film form</i>
2	Understanding The SouthAsian Diaspora Through The lens of Jhumpa Lahiri.	Muqem Ahmad	Dr. Kiran Yadav	<i>This dissertation analyses South Asian diasporic identity in Jhumpa Lahiri's Interpreter of Maladies, The Namesake, and Unaccustomed Earth through the theoretical frameworks of Stuart Hall, Homi K. Bhabha, and Vijay Mishra, exploring themes of displacement, cultural hybridity, alienation, and intergenerational conflict</i>
3	Communal Harmony and Betrayal as Portraits of Rural Transformation during Partition: Khushwant Singh's Train to Pakistan and Saadat Hasan Manto's Toba Tek Singh.	Sameep	Dr. Rohit Jahari	<i>This dissertation explores the transformation of communal harmony into betrayal in rural Punjab during Partition through Train to Pakistan and Toba Tek Singh.</i>
4	Eco consciousness in Indian Web series Kaala Paani.	Komal	Dr. Amit kumar	<i>study explores eco-consciousness in Kaala Paani through its portrayal of environmental crisis and human survival.</i>
5	Sacred Voices of the Hills : Exploring the Unique Spirituality of Uttarakhand.	Diksha Topwal	Mr. Dipank	<i>This research examines the spiritual and cultural ecology of Uttarakhand through the related practices of Jagar, Aanchhris and Dev Doli.</i>
6	Hypocrisy, Marginalisation, And Representation: Reading Sex workers and Courtesans in Sanjay Leela Bhansali's Gangubai Kathiawadi and Muzaffar Ali's Umrao Jaan.	Bhuvi Chawla	Dr. Rohit Jahari	<i>This study examines how hypocrisy, marginalisation, and representation shape the portrayal of sex workers and courtesans in Gangubai Kathiawadi and Umrao Jaan</i>
7	Colonialism and Indigenous Resistance in Avatar and Avatar : The Way of Water.	Maman Dewan	Dr. Amit Kumar	<i>This dissertation examines the themes of colonialism, imperialism, identity and indigenous resistance in Avatar and Avatar: The Way of Water</i>
8	Women in 21st-century Urban India: A Select Study of Writings on the City of Delhi.	Oshin Sawhney	Dr. Kiran Yadav	<i>This research explores how women in modern Delhi balance freedom, identity, relationships, and societal expectations in contemporary Indian English novels.</i>
9	Understanding Childhood in the Shadow of Partition: A Comparative Study of Selected Novels — Cracking India, The Night Diary, Clear Light of Day.	Kshitij Kaamti	Dr. Kiran Yadav	<i>This dissertation examines how childhood experiences and memories in Partition literature reveal the emotional trauma, displacement, and identity crises caused by the 1947 Partition of India through the novels Cracking India, The Night Diary, and Clear Light of Day.</i>

# B.A. (Hons.) English- 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
10	E-sports and their e-mediums as the new age techno-gaming revolution: A study in techno-sportsmanship in the digital age.	Kamal	Dr. Abbasuddin Tapadar	<i>This research examines how E-sports is becoming a new-age sports revolution through technology and media</i>
11	Reading Contemporary Indian Women through Anita Nair's Eating Wasps.	Nisha Kumari	Dr. Abbasuddin Tapadar	<i>This dissertation examines the complexities of contemporary Indian womanhood in Anita Nair's Eating Wasps through an intersectional feminist lens. It explores how Kerala's seemingly progressive society still controls, judges, and restricts women.</i>
13	Between Silence and Selfhood: A Comparative Study of Women's Identity in the Select Works of Manju Kapur and Elena Ferrante.	Garima Bisht	Dr. Abbasuddin Tapadar	<i>This study explores the themes of Identity Fragmentation, silencing of women under the oppression of Patriarchy, the fight for selfhood, and the trauma experienced by women who are geographically apart, yet their experiences speak louder to the world</i>
12	Close Reading of The Metamorphosis through Existentialist ideas.	Arpita Khanduja	Dr. Kiran Yadav	<i>This thesis reads Kafka's The Metamorphosis closely to explore how the story reveals the fragility of identity and the quiet devastation of a life lived entirely for others.</i>
14	Satyaki dwapar ka Ajey yodha.	Vaishnavi soni	Dr Kaushiki Shukla	<i>Translation of Hindi text into English language</i>
15	The Horse You Can't Escape: Critically Reading Bojack Horseman through the lens of Literary Naturalism.	Sneha Srivastava	Dr. Abbasuddin Tapadar	<i>This study analyses the naturalistic elements in the Netflix Series Bojack Horseman</i>
16	Brain rot and Absurdity in Charlie Kaufman's Synecdoche, New York and Yorgos Lanthimos's The Lobster.	Sania Jamali	Dr. Rohit Jahari	<i>This dissertation examines the representation of brain rot and absurdity in Synecdoche, New York and The Lobster through the lens of Albert Camus' philosophy of the absurd.</i>
17	Ecofeminist Discourse in Janice Pariat's novel Everything the Light Touches.	Khushi	Mr. Dipank	<i>This study explores Janice Pariat's novel Everything the Light Touches (2022) through an ecofeminist theory.</i>
18	Humiliation to Response: A Critical Analysis of Selected Characters in B.R. Chopra's Mahabharat 1988.	Jiya	Dr. Amit Kumar	<i>This study examines the humiliation and it's responses of the characters of Mahabharat, B.R. Chopra's adaptation, through the lens of psychology.</i>
19	Karmayogini Who Ruled: Women's Agency and Transformational Leadership in 18th-Century India.	Manya Puri	Professor Kusha Tiwari	<i>This study explores Ahilyabai Holkar as Karmayogini through women's agency, transformational leadership and strategic negotiation within the patriarchal structure of eighteenth century India.</i>

# B.A. (Hons.) Hindi - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
1	ओमप्रकाश वाल्मीकि की प्रमुख कहानियों (चयनित) में दलित नारी-चेतना	Srishti Chauhan	Dr. Nand Kishore	यह अध्ययन ओमप्रकाश वाल्मीकि की चयनित कहानियों में दलित नारी-चेतना का विश्लेषण करता है। इसमें दलित महिलाओं के शोषण, संघर्ष, आत्मसम्मान और सामाजिक असमानताओं को उजागर किया गया है। अध्ययन यह दर्शाता है कि उनकी कहानियाँ दलित स्त्री की पहचान, अधिकार और सामाजिक चेतना को सशक्त रूप से प्रस्तुत करती हैं।
2	खड़ी बोली के लोक-गीतों में राष्ट्रीय-चेतना : एक अध्ययन	Masoom Ali	Dr. Satyapriya Pandey	यह अध्ययन खड़ी बोली के लोकगीतों में राष्ट्रीय चेतना, देशभक्ति और सामाजिक जागरूकता का विश्लेषण करता है। इसमें लोकगीतों के माध्यम से राष्ट्रप्रेम, सांस्कृतिक एकता और जनभावनाओं की अभिव्यक्ति को समझाया गया है।
3	निर्मला' उपन्यास में स्त्री-जीवन की समस्याएं : एक अध्ययन	Khushi	Dr. Suman	प्रस्तुत शोध का उद्देश्य प्रेमचंदयुगीन सामाजिक यथार्थ के परिप्रेक्ष्य में 'निर्मला' उपन्यास में व्याप्त अनमेल विवाह की समस्या, पितृसत्तात्मक कुरीतियों के मनोवैज्ञानिक प्रभाव तथा नारी अस्मिता के संकट का सघन विश्लेषणात्मक अध्ययन करना है।
4	महादेवी वर्मा कृत 'शृंखला की कड़ियाँ' में स्त्रीवादी-स्वर	Sunny	Dr. Rakesh Kumar Meena	यह अध्ययन महादेवी वर्मा कृत 'शृंखला की कड़ियाँ' में स्त्रीवादी स्वर, नारी स्वतंत्रता और सामाजिक बंधनों के विरोध का विश्लेषण करता है।
5	प्रेमचन्द के उपन्यास 'गोदान' में भारतीय ग्रामीण समाज की सामाजिक-आर्थिक संरचना का अध्ययन	Mohd Sajid raza	Dr. Prabhat Sharma	यह अध्ययन मुंशी प्रेमचंद के उपन्यास गोदान में भारतीय ग्रामीण समाज की सामाजिक और आर्थिक संरचना का विश्लेषण करता है।
6	हिंदी सिनेमा में राष्ट्रवाद का स्वरूप (2015 से 2025 तक)	Anchal Singh	Dr. Rajkumar Prasad	यह शोध हिंदी सिनेमा में राष्ट्रवाद के बदलते स्वरूप का अध्ययन करता है, विशेष रूप से 2015 से 2015 तक। राष्ट्रवाद के विषय और प्रवृत्तियों का भी विश्लेषण किया गया है।
7	हिंदी सिनेमा में खेल आधारित प्रमुख बायोपिक फिल्मों का अध्ययन (2005 से 2025 ई. तक)	Harsh Vardhan Singh	Dr. Rajkumar Prasad	यह अध्ययन 2005 से 2025 तक की हिंदी सिनेमा की खेल आधारित बायोपिक फिल्मों में संघर्ष, प्रेरणा, राष्ट्रभावना और खिलाड़ियों के जीवन चित्रण का विश्लेषण करता है।
8	जयशंकर प्रसाद की रचनाओं में मिथकीय चेतना	Priyanshi Singh	Dr. Amitabh Kumar	यह अध्ययन जयशंकर प्रसाद की रचनाओं में मिथकीय चेतना, सांस्कृतिक मूल्यों और भारतीय परंपरा के चित्रण का विश्लेषण करता है।

## B.A. (Hons.) Hindi - 4th Year

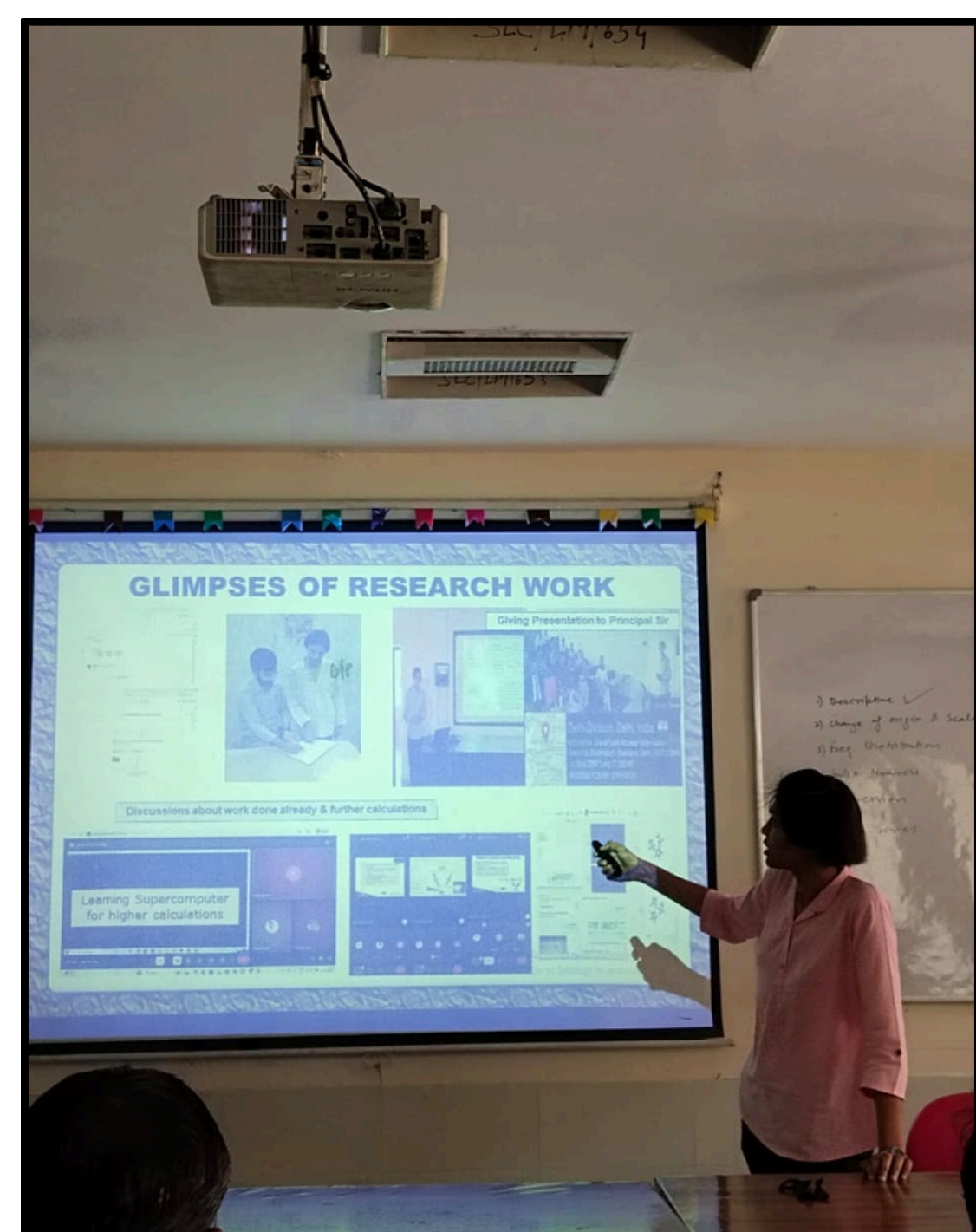
S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
9	समकालीन सामाजिक परिदृश्य में कबीर का महत्व	Shubham Patel	Prof. Hemant Kukreti	भारत के आर्थिक और सामाजिक परिदृश्य आज से 600 साल पहले के सामाजिक और आर्थिक परिदृश्य से कैसे भिन्न है तथा उस समय की राजनीतिक व्यवस्था और आज के समय से कैसे भिन्न है। कबीर कालीन समाज में स्त्री की दशा और समाज में ऊंच नीच की भावना को हम समझेंगे और आज के समय से तुलना करेंगे।
10	प्रेमचंद की कहानियों में दलित चेतना	Aman Kumar Pandey	Dr. Nand Kishore	यह अध्ययन मुंशी प्रेमचंद की कहानियों में दलित वर्ग के जीवन-संघर्ष, सामाजिक भेदभाव और समानता की चेतना का विश्लेषण प्रस्तुत करता है।
11	लोकगायक लखमीचंद और 'दादा लखमी' फिल्म : एक अध्ययन	Sahdev Sharma	Dr. Satyapriya Pandey	यह अध्ययन पंडित लखमीचंद के लोकसंगीत योगदान तथा फिल्म 'दादा लखमी' में उनके व्यक्तित्व, संघर्ष और सांस्कृतिक प्रभाव के चित्रण का विश्लेषण करता है।
12	अज्ञेय की आधुनिकता और परंपरा	Shelly Yadav	Dr. Amitabh Kumar	यह अध्ययन अज्ञेय के साहित्य में आधुनिकता और परंपरा के समन्वय तथा उनके वैचारिक दृष्टिकोण का विश्लेषण करता है।
13	'देवदास' विषयक फिल्मों की भाषा का तुलनात्मक अध्ययन	Akash	Dr. Ramesh Kr. Burnwal	यह शोध "देवदास" (1936, 1955 और 2002) पर बनी फिल्मों की भाषा का तुलनात्मक अध्ययन करता है। इसमें देखा जाएगा कि अलग-अलग समय के साथ संवाद और अभिव्यक्ति में क्या बदलाव आए हैं तथा उनका स्वरूप कैसे विकसित हुआ है।

## B.A. (Hons.) Economics - 4th Year

S.No.	Title of Research Project/Entrepreneurial Idea	Name of Student	Name of Faculty/ Supervisor	Synopsis
1	Analysing the impact of climate variability on agricultural productivity in the context of rabi crop particularly wheat: A case study of Shamli and Prayagraj (Allahabad) districts of Uttar Pradesh (2010-11 to 2020-21).	Ashish Kumar Yadav	Dr. Jitender kumar	<i>The study finds that climate variability significantly affects wheat productivity in Uttar Pradesh. Higher rainfall and minimum temperature reduce wheat yield, while major regional differences exist between Shamli and Prayagraj.</i>
2	Employment trends in Uttar Pradesh: A Comprehensive Analysis of Structural Shifts and Labor Market Dynamics.	Dhananjay Singh Bhadoria	Dr. Bharat Garg	<i>The study examines employment and unemployment trends in Uttar Pradesh within India's changing labor market. It highlights sectoral shifts, causes of unemployment, and the impact of economic changes on job creation.</i>
3	The Impact of Digitalisation on Cash Usage: A Case Study of College Students of Delhi Capital Region.	Mahi Gangwar	Ms. Suman Rani	<i>The study finds that digital payments, especially UPI, are widely adopted among college students in Delhi and have reduced cash dependency. However, cash remains important for small and local transactions due to trust and accessibility factors.</i>
4	Evaluation of skill enhancement in India.	Piyush Malhotra	Dr. Bisla Devi	<i>The study examines the impact of skill enhancement on employment and wages in India using PLFS data. It finds that skilled individuals are more likely to secure stable jobs and earn higher wages.</i>
5	Socioeconomic Anatomy of Overweight-Obesity: Unearthing Class, Gender, and Health in India.	Priyanka Roy Choudhury	Ashani Dhar	<i>The study examines the rising prevalence of overweight and obesity in India using NFHS data from 2005–2021. It finds a sharp increase in obesity rates, especially in rural areas, driven by age, higher income, and health conditions like diabetes and hypertension.</i>
6	Modelling financial responses to cost disparity in education: evidence from nationally representative survey.	Riya Sethia	Dr. Bisla Devi	<i>The study examines rising education costs in India and their impact on household finances. It finds that lower-income families face greater financial stress and rely more on external financing.</i>
7	Economic burden of gastric health in india.	Tanjul Parashar	Dr Bisla devi	<i>The study examines how income, sanitation, water quality, and living conditions affect gastric health in India. It finds that gastric ailments increase financial burden, especially for low- and middle-income households.</i>

# Glimpse of the Moment

## NEP Research Output for 4th Year Students



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