2.6.1 Program outcomes, Program Specific outcomes, for all program offered by the institute are started and displayed on website

There are 3 programs in undergraduate level-B.A., B..Sc. and B.Com. Following are the program outcomes:

Program Outcomes

Program outcomes of Bachelor of Arts:

<u>O1. Knowledge and understanding of arts field</u>: To develop a detailed knowledge and understanding of arts field as core disciplines in humanities, social sciences and languages.

O2. Reading and writing skills: Students can interpret with an awareness and curiosity for other perspectives. They will be able to write effectively for a variety of professional and social setting. They will develop an awareness and confidence in their own voice as a writer and analyze complex social and natural problems with the help of their degree specialization.

O3. Critical Approaches: Students will develop an ability to read works of literary, and cultural criticism and develop idea with the help of their specialization. They will express their own ideas as informed opinions, small projects and practical and understand how their own approach compares to variety of critical and theoretical approaches.

<u>O4. Environment Awareness</u>: Understand the issues and problems of environmental context and develop environmental awareness in the mind.

Program outcomes of Bachelor of Commerce

PO1. To apply basic mathematical and statistical skills necessary, which is necessary for analysis of a range of problems in economics actuarial studies, Accounting, Marketing, Management and Finance etc.

PO2. Sound knowledge of various laws: Impart the knowledge of basic concepts, terms & provisions of company law, Mercantile law, Income Tax and other laws affecting business, trade and commerce..

PO3.Environment Awareness: Understand the issues and problems of environmental context and develop environmental awareness in the mind.

PO4.Consumer Movement: Make people aware about consumer movement, rights & duties, laws relating to consumers.

PO5. Analysis Organizational problems and generate realistic solutions based on current academic behavior.

Program outcomes of Bachelor of Science

PO1. Understand the methods of science, and can explain why scientific knowledge is both contestable testable by future inquiry.

PO2. Apply appropriate methods to solve problem in science, mathematics, technology including the planning and conduct of a significant project problem or investigation.

PO3. Articulate the relationship between different science branches of practice, the international scope of science, mathematics, technology and engineering knowledge and methods and the contributions to their development that have been made by people with diverse perspectives, culture and backgrounds.

Program Specific Outcomes

Program Specific Outcomes for Sociology

S1. To understand the core doctrines of each of the ideologies and to make sense of sociology through different ideological perspectives.

S2. Understand social structure and preliminary facts of castes and jatis, from language, religion, ethic and Economic determinants and critically assesses its impact on the society.

S3. Understand legacy of the thinkers is explained with the view to establish the continuity.

Program Specific Outcomes for Economics

- S1. Understand the difference between Micro Economics & Macro Economics.
- S2. Understand the techniques and diagrams related to employment theory.
- S3. To study the international policies of economics, and politics for economic strengthen.
- S4. Understand the concept of Foreign Exchange, International Banking & Euro Currency Market.

Program Specific Outcomes for Hindi

- S1. Understand basic concepts of Hindi
- S2. To Known in depth Knowledge of Literature of Hindi
- S3. To know the great writers.

Program Specific Outcomes for Geography

- S1. Understand the nature and basic concept of geography
- S2. Understand the applied and professional nature of geography such as fields of surveying

S3. Understand the application of modern geography techniques such as geographical information system in society as well as environmental and settlement geography, hazards, language land cover etc.

Program Specific Outcomes for Political science

S1. To understand the core doctrines of each of the ideologies and to make sense of politics through different ideological perspectives.

S2. Understand social structure and preliminary facts of castes and jatis, from language, religion, ethic and Economic determinants and critically assesses its impact on the political processes.

S3. Understand legacy of the thinkers is explained with the view to establish the continuity.

Program Specific Outcomes for Chemistry

S1. Inorganic chemistry: Introduction to molecular symmetry, co-ordination of compounds and Bio-inorganic chemistry.

S2. Physical chemistry: Review of conventional processes, recent advance techniques. Surface properties, ionic properties and other special characteristics of substances,

S3. Organic chemistry: Introduction to fundamental concepts and principles of process synthesis. Proficiency in Synthetic skill, Characterization by various analytical techniques, Micro-techniques and in-depth knowledge in subject is evaluated by allotting synthetic scheme.

Program Specific Outcomes for Zoology

S1. To study application of Zoology for benefit of mankind.

S2. To serve as a valuable foundation for understanding human anatomy, physiology, genetics, molecular biology and entomology.

S3. To study the range from diversity to Molecular Biology.

Program Specific Outcomes for Botany

S1. To study the variation of plants life at all levels of biological organization.

- S2. To Study biotechnological process, use of various plants resources at commercial level.
- S3. To understand the physiological process in plants

Program Specific Outcomes for Mathematics

- S1. To study the method of solving in mathematics.
- S2. To develop the calculating abilities and analyzing abilities in students.

S3. The students acquire an understanding of basic object oriented concepts and the issues involved in mathematics, e.g., example solving, proving technique, analyze the concept.

Program Specific Outcomes for Computer

- S1. To develop Problem Solving abilities using computers.
- S2. To understand creations, manipulation and querying of data in databases.
- S3. To teach fundamental concepts of DBMS.

Course Outcomes

Course Outcomes of Sociology Department

S.N.	Name of Paper	Learning outcome
1	CLASSICAL SOCIOLOGICAL	Historical Background of the Emergence of Sociology. Auguste Comte, Emile
	TRADITION	Durkheim, Vilfredo Pareto, Herbert Spencer,
2	PHILOSOPHICAL AND CONCEPTUAL	Philosophical Roots of Social Research; Values and Theories in Sociology;
	FOUNDATION OF RESEARCH	Nature of Social Reality and Approaches to It; Qualitative Methods in Social
	METHODOLOGY	Research; Issues in Social Research
3	SOCIAL CHANGE IN INDIA	Conceptual and Theoretical Frame work, Factors of Social change; Trends
		and Processes of Change in Modern India; Changes in Tribal and Rural India;
		Changes in Urban and Industrial India
4	RURAL SOCIOLOGY	Characteristics and Approaches; Agrarian Institutions; Planned Change;
		Rural Development and Change; Welfare measures and consequent Changes
5	PRACTICAL-I	Practical based on Field Work & Preparation of tools
		Interview Guide and case study
6	CLASSICAL SOCIOLOGICAL	 Karl Marx; Thurstein Veblen; Max Weber; Talcott Parsons; Robert K.
	THINKERS	Merton;
7	QUANTITATIVE RESEARCH	Sampling; Quantitative method and survey Research; Measurement and
	TECHNIQUES IN SOCIOLOGY	Scaling Techniques; Statistics in Social Research; Qualitative and
		Quantitative research method
8	SOCIOLOGY OF DEVELOPMENT	Perspectives on Development; Changing Conception of Human
		Development; Indian Experience on Development; Consequences of
		Development; Issues and development in Contemporary India (Social
		Exclusion, Gender Discrimination, Privatization and unfavorable Service
		condition, Sustainability)
9	INDIAN RURAL SOCIETY	 Tribal Society as Agrarian Society; Social Issues; Contemporary Issues;
		Peasant Movement; Naxlite movement in Contemporary India.
10	PRACTICAL-II	Practical based on Field Work & Preparation of tools
		 Questionnaire, Interview Schedule Preparation and Tabulation
11	CLASSICAL SOCIOLOGICAL	Positivism; Functionalism; Conflict theory; Structuralism; Exchange Theory
	THEORIES	
12	SOCIAL MOVEMENTS IN INDIA	 Nature and Types; Basis of Social Movement; Theoretical Perspectives;
		Traditional Social Movements; New Social Movements (Dalit, Women, ethnic,
		environmental)
13	PERSPECTIVES OF STUDY TO	Indological / Textual; Structural Functionlism; Marxism; Subaltern

	INDIAN SOCIETY	Perspective; Civilization
14	INDUSTRY AND SOCIETY IN INDIA	Industrial Sociology and Classical Sociological Tradition; Industrial
		Organizations; Problems through Industrialization process; Subjective
		Experience of Work; Technological Change and Automation;
15	CRIMINOLOGY	Conceptual and Theoretical Approaches; Type of Criminals and Crime;
		Changing Profile of Crime and Criminals; Theories of Punishment; Terrorism
16	MODERN SOCIOLOGICAL THEORIES	Symbolic Interectionism; Phenomenology; Ethno methodology, Critical
		Theory; Post Modernism
17	COMPARATIVE SOCIOLOGY	Historical and Social Context of Emergence of Sociology in the West; Central
		Themes in Comparative sociology; Theoretical Concern,s in Comparative
		sociology; Current Debates; Debate on "For Sociology of India";
18	CONTEMPORARY ISSUES IN	Industrial Relation; Trade Union and Industrialization; Industry and Society;
	INDUSTRY	Industrilization in Third world Countries in the Era of Globlization;
		Contemporary Issues
19	CRIMINOLOGY: CORRECTIONAL	Roots of Correction to prevent Crime; Correction and It's Forms; Problem of
	AND ADMINISTRATION	Correctional Administration; Victimological Perspective; Community
		Policing
20	PROJECT REPORT	 On Rural and Urban Problems

Course Outcomes of Economics Department

S.N.	NAME OF PAPER	LEARNING OUTCOMES
1	Micro economics -1 paper-1	 Int roduct ion; indi f ference curve; theory of product ion; theory of cost and
		revenue analysis; monopol ist ic compet i t ion
2	Macro economics-1 paper-2	National income and accounts; classical theory of employment; consumption
		function; investment funct ion; demand for money.
3	Quantitative methods paper-3	Skewness, simple cor relat ion; regression analysis; interpolat ion and ext
		rapolat ion; associat ion of at t r ibutes, index number, time ser ies analysis;
		meaning and types of funct ions. Differentiation and integrat ion
4	Indian economy paper-4	 Indian economy: meaning, basic character ist ics and major issues of
		development of indian economy; demographic features of india; agr icul tural
		development in indian economy; indust r ial development in india; inf rast ructure-
		inf rast ructure and economic development.
5	Industrial economics paper-5	 Concept and organizat ion of a firm; indust r ial product ivi ty, owned,
		external and other components of funds; st ructure of indust r ial labour; large
		scale industries;
6	Micro economics-ii paper-1	 Full cost pricing theory; theory of dist r ibut ion; linear programming and
		game theory; concept of equi l ibr ium; wel fare economics.
7	Macro economics paper-2	Theory of inf lat ion; business cycles; monetary pol icy; is-lm model; the rat
		ional expectat ion hypothesis.
8	Research methodology and	 Research methodology and research methods; sampl ing-; classi f icat ion and
	computer application-paper 3	tabulat ion of data; test ing of hypothesis; elemen tary knowledge of internet and
		ms of f ice, role of computer in economic research.
9	Indian economic policy-	 Planning in india; problem of pover ty and inequal i ty, problem of
	paper-4	unemployment in india; indian finance system; foreign trade of india; wto and i ts
		impact on the di f ferent sector of economy.
10	Labour economics-paper-5	 Labour economics - def ini t ion, nature, scope & impor tance; theor ies of
		labour market; theor ies of labour movement; labour legislat ion in indian labour;
		labour wel fare in india, rural and agr icul tural labour in india.
11	Economics of growth-paper-1	Conomic growth and development; the concept of capi tal output ratio, theor
		ies of growth; approaches to growth; steady state growth, growth account ing.
12	International trade-paper-2	 Theory of internat ional trade; modern theory of internat ional trade; the
		theory of intervent ion; balance of payments; income adjustment.

13	Public finance-paper-3	Nature and scope of public finance; public expenditure; public revenue; public debt; budget – meaning, object ives, different forms of budget, budgetary process in india,
14	Environmental economics- paper-4	The economics of envi ronment; economic theory of envi ronmental issues; populat ion, agr icul ture and the envi ronment; ecological economics; envi ronmental value and methods
15	Demography-paper-5	Theor ies of populat ion; migrat ion; mor tal i ty, fer t i l i ty; women empowerment
16	Economics of development and planning-paper-1	 Economic planning; theor ies of development; approaches to development; development models; investment cr i ter ia in economic development
17	International economics- paper-2	Foreign trade and economic developmentregional ism of european union; theory of shor t term & long term capi tal movement and internat ional trade ; internat ional monetary system ; internat ional organi sat ions
18	Public economics-paper-3	Role of publ ic finance in economic devel opment; federal finance; indian tax system; analysi s of cent re & chhat t isgarh govt, budget; financial responsibil i t ies and budget management act
19	Economics of social sector- paper-4	Pol lut ion- clas si f icat ion of pol lut ion; development and envi ronment ; economics of resources; economics of educat ion; heal th economics.
20	Viva-voce examination-paper- 5	To appear for a viva-voce examination before the external examiner appointed by the university

Course Outcomes of Political Science Department

S.N.	Name of paper	Learning outcome
1	Indian Political Thought	Kautilya, Swami Vivekanand And Bal Gangadhar Tilak;
		Thought OF Dr. Bhimrao Ambeakar, Manatma Ganani And Gopai Krishna Goknie, Thought Of Raja Ram Mohan Roy, Ram Manohar Lohia, Manyandra Nath Roy
		Jainrskash Naravan, Thought Of Jawar Lal Nehru, Dindval Unadhvay, Moulana
		Abul Kalam Azad
2	Indian Government and Politics	Background of indian constitution, organization ideological basis source,
		preamble, features of indian constitution; fundamental rights and dueties; union
		legislature; union judiciary.
3	Comparative Politics	Comparative Politics Meaning, Nature, Scope and Problems, Political System
		Concept, Features and Importance; Approaches to the Study of Political System,
		Characteristics of Traditional and Modern Political Studies Political culture,
		Political Socialisation, Political Communication
4	International Organization	Nuture and Evolution of International Organization Coordination among Nations ,
		Nation State, and International System; League of Nation-Formation, Function,
		Achievements, Merits and Demerit and evaluation; United Nation-Formation
		Structure, Peace and Coercive Measures to Settle the Disputes in United Nations
		The role of UN to Social and Economic Development; egionalOrganization-SAARC,
		ASEAN, EUROPEAN UNION, BRICS
5	Western Political Thought	Plato, Aristotle, Machiavelli; Jean Bodin, Thomas Hobbes, John Luck, Jaen Jacous
		rousseau; Bentham, J.S. Mill ,T.H. Green
		Hegel, Marx, Lenin, Mao
6	State Politics in India	State Executive: GOVERNOR, CHIFE MINISTER and Council of Ministers; state
		Legislature: Vidhan Sabha and Vidhan Parishad State Judiciary: High Court and
		Subordinate Courts; Demand for State Autonomy, Demand For the Creation of
		New State, Inter State River Water Disputes, Factors influencing State Politics in
		India; state Planning commission, State Finance Commission State Election
		Commission, Major Trends in State Politics of India
7	Comparative Politics of Development	Classification of Government- Unitary, Federal, Parliamentary, Presidential,
	Countries	Federalism; Political Institutions- Legislature, executive and Judiciary, Theory of

		Seperation pf Powers; political Parties and Pressure Groups Bureaucracy- Structure Function and Role; Political Development, Political Elites, Political Socialisation, political Modernization
8	Indian Foreign Policy	Foreign Policy: Meaning, Nature and Determinants Determinants of Indian Foreign Policy: Internal and External Principles and Objectives of Indian Foreign Policy; India and the USA, India and Russia; India and Pakistan, India and China, India and Srilanka; India and the U.N.O India and Nuclear Disarmament
9	Principal of International Politics	Evolution of International Politics as discipline, Nature, Scope, Method of Study- Traditional and Scientific; Theories of International Politics, Realism Idealism, Equilibrium, Decision making, Game, communication & System Theory; Concept of Power-Elements and limitations of National Power-Balance of Power- Collective Security, New colonialism. National Interest and International Ideology and Morale; Disarmament, Nuclear Non Proliferation-CTBT NPT. Regional Organization- SAARC, ASEAN, OPEC
10	Public Administration Part-I	Public Administration-Definition, Nature, Scope, Difference between Private Administration; Approaches to Study- Behaviouralism, Comparative, Decision Making, Development Administration, New Public Administration; Theory of Organization:-Hierarchy,Unity of Command Span of Control, Delegation of Power, Coordination; Centralisation and Decentralisation, Chief Executive- Types and Role. Line and Staff Agencies, Departmental Organization, Independent Regulatory Commissin; Public Corporation, Recruitment, Promotion and Training, Retirement, Union Public Service Commission, Bureaucracy
11	Research Methodology Part-I	Nature of Social Research, Importance and uses, Deference between Pure and Applied Research, Identification of Research Problem Research Design, Hypotheses Formulation and testing; Social Survey- Amis, Importance, process, Data Collection, Primary and Secondary Source of Facts; Observational Method, Interview Method, Questionaire and Schedules; Types of Study- Panel, Case and Field Study
12	Government and Politics of Chhattisgarh	National Movement in Chhattisharh from, 1885 to 1947; Major Social Reformist and Political Leaders; Local Self Govt. In Chhattisgarh; Tribal Area Administration in Chhatisgarh; Main Determinating Factors and Features of State Politics in Chhattisgarh
13	Contemporary issues of International Politics	Non-Alignment in International Politics Basis, Role, Importance and Relevance; Cold War and End of Cold War- Cause and results. New World Order Important issues in post cold war era- Globalisation Human Rights, Environment, Terrorism; Foreign Policy of Important Contries India, USA, China and Russia.
14	Public Administration Part-II	Personnel Administration- System to Solve the Problem of Personnel; Finance Administration; Administration Behaviour; Corruption in Administration.
15	Research Methodology Part-II	Sampling, Scaling Techniques, Projections Techniques; Research Team, Problems of Research, Classification of Facts and Tabulation ; analysis and Interpretation of Facts. Report writing Reprograpic Presentation of Data; The use and limitation of Statistics. Mean Mode, Medium, and Use of computer
16	Political Ideologiese and Modern Political Thought	<u>Individualism and Liberalism</u> -Conecpt, Main Theories Merits and Demerits. Contemporary Liberalism, Main Thinkesrs; <u>Existentialism</u> – Concept, Jean Paul Sartre. Fascim – Concept, Main Features. <u>Karl Popper</u> Totalitarianism – Concept – Main Features. Contemporary Liberty – Isaihberin And Milton Friedman. Leo Straus – Criticism of Democracy, Defence of Classical Political Theory. <u>Faminism</u> – Concept, Features <u>Contemporary Marxism</u> – Antonio Gramci- Concept of Hegemony, Role of

		Intelectuals. <u>Frankfurt School</u> – Introduction, Criticism of All Kinds of Hegemony. <u>Socialism</u> – Concept, Features. <u>Multiculturalism</u>
17	Project work VIVA-VOCE	A project work of 100 marks

Course Outcomes of Hindi Department

*ਹਨੁਹ	छंउम वचिंचमत	स्मंतदपदह वनजबवउम
1	प्रथम सेमेस्टर प्रनपत्र – प्रथम	इकाई–1 हिन्दी साहित्य का इतिहासः परम्परा और पद्धतिः इकाई–2 आदिकालः इकाई–3 पूर्व मध्यकाल (भक्ति
	हिन्दी साहित्य का इतिहास (आदिकाल एवं पूर्व	काल), भक्ति आंदोलन इकाई–4 भक्तिकाल की विभिन्न काव्य.धाराएँ
	मध्यकाल)	
2	प्रथम सेमेस्टर प्रन पत्र – द्वितीय प्राचीन एवं	 चंदबरदाई 2. विद्यापति पदावली 3. कबीर ग्रंथावलीः 4. मलिक मोहम्मद जायसी
	मध्यकालीन काव्य (रासो काव्य, लौकिक काव्य एवं	
	निर्गुण काव्य)	
3	प्रथम सेमेस्टर प्रश्न पत्र – तृतीय	इकाई 1. मैथिलीशरण गुप्त – साकेत इकाई 2. जयशंकर प्रसाद 🛛 इकाई 3. सूर्यकांत त्रिपाठी निराला
	आधुनिककाव्य—1 (द्विवेदीयुगीन एवं छायावादी	इकाई 4. महादेवी वमा
	काव्य)	
4	प्रथम सेमेस्टर प्रश्न पत्र – चतुर्थ	इकाई –1. नाटक इकाई –2. एकांकी इकाई – 3. चरितात्मक कृति इकाई – 4. आत्मकथात्मक कृति
	आधुनिक गद्य साहित्य (नाटक, एकांकी एवं	
	चरितात्मक तथा आत्मकथात्मक कृति)	
5	द्वितीय सेमेस्टर प्रश्न पत्र – पंचम (उत्तर	इकाई 1. उत्तर मध्यकाल (रीतिकाल) इकाई 2. आधुनिक काल इकाई 3. द्विवेदी युग इकाई 4. हिन्दी
	मध्यकाल से आधुनिक काल तक)	गद्य का विकास
6	द्वितीय सेमेस्टर प्रश्न पत्र –ाष्ठ	इकाई –1. सूरदास –भ्रमरगीत सार इकाई – 2. तुलसीदास इकाई – 3. बिहारी इकाई – 4. द्रुत पाठ हेतु
	मध्यकालीन काव्य	निम्नांकित 5 कवियों एवं उनकी रचनाओं का (विषय एवं शिल्पगत) ज्ञान अपेक्षित है केशव, भूषण, पद्माकर,
		देव, घनानंद
7	द्वितीय सेमेस्टर प्रश्न पत्र – सप्तम	स.ही.वात्स्यायन अज्ञेय ग.मा. मुक्तिबोध नागार्जुन रघुवीर सहाय
	आधुनिककाव्य–२ (प्रगतिवाद, प्रयोगवाद, नई	
	कविता एवं समकालीन कविता)	
8	द्वितीय सेमेस्टर प्रश्न पत्र – अष्टम आधुनिक गद्य	उपन्यास – 1. गोदान निबंध कहानी
	साहित्य (उपन्यास, निबंध एवं कहानी)	
9	तृतीय सेमेस्टर प्रश्न पत्र – प्रथम	इकाई–1 भारतीय काव्य शास्त्र इकाई–2 अलंकार सिद्धांत रीति सिद्धांत, इकाई–3 पाश्चात्य काव्य शास्त्र
	साहित्य के सिद्धांत तथा आलोचना शास्त्र	प्लेटा इकाई–4 मैथ्यू आर्नल्ड
10	तृतीय सेमेस्टरप्रश्न पत्र – द्वितीय	इकाई–1 भाषा और भाषा विज्ञान इकाई–2 स्वन प्रक्रिया इकाई–3 व्याकरण : रूप विज्ञान का स्वरूप और
	(भाषा विज्ञान)	शाखाए इकाई–4 अर्थ विज्ञान : अर्थ की अवधारणा,
11	तृतीय सेमेस्टर प्रश्न पत्र – तृतीय	इकाई–1 हिन्दी के विभिन्न रूप– इकाई–2 पारिभाषिक शब्दावली इकाई–3 इं टरनेट सं पर्क उपकरणों का
	(कामकाजी हिन्दी एवं पत्रकारिता)	परिचय इकाई–4 पत्रकारिता का स्वरूप एवं प्रकार
12	तृतीय सेमेस्टर प्रश्न पत्र – चतुर्थ	इकाई–1 भारतीय साहित्य का स्वरूप, इकाई–2 हिन्दीतर साहित्य का इतिहास इकाई–3 उपन्यास
	भारतीय साहित्य पू	इकाई– ४ नाटक – हयवदन
13	चतुर्थ सेमेस्टर प्रश्न पत्र – पंचम	इकाई 1 मनोविश्लेशण वाद इकाई 2 हिन्दी कवि आचार्यों का काव्य शास्त्रीय चिंतन इकाई 3 आधुनिक
	(हिन्दी आलोचना तथा समीक्षा शास्त्र)	हिन्दी आलोचना का विकास एवं उसकी प्रमुख प्रवृत्तिय इकाई 4 व्यावहारिक समीक्षा : काव्यांश की स्वविवेक
		के अनुसार व्याख्या
14	चतुर्थ सेमेस्टर प्रश्न पत्र –षष्ठ	इकाई–1 हिन्दी की ऐतिहासिक पृष्ठभूमि इकाई–2 हिन्दी का भौगोलिक विस्तार इकाई–3 हिन्दी के विविध
	(हिन्दी भाषा)	रूप– इकाई–4 हिन्दी में कम्प्यूटर सुविधाए
15	चतुर्थ सेमेस्टर प्रश्न पत्र – सप्तम	इकाई–1 मीडिया लेखन जनसंचार इकाई–2 दृश्य–श्रव्य माध्यम इकाई–3 अनुवाद – सिद्धांत एवं व्यवहार
	(मीडिया–लेखन एवं अनुवाद)	इकाई–4 व्यावहारिक अनुवाद अभ्यास
16	चतुर्थ सेमेस्टर प्रश्न पत्र – अष्टम	इकाई–1 छत्तीसगढ़ी भाषा–भौगोलिक सीमा इकाई–2 छत्तीसगढ़ी साहित्य की युग प्रवृत्तियॉ एवं इतिहास
	जनपदीय भाषा और साहित्य (छत्तीसगढ़ी)	इकाई–3 छत्तीसगढ़ी कविता एवं कवि इकाई–4 छत्तीसगढ़ी नाटक एवं उपन्यास

Course Outcomes of Mathematics Department

S.N.	Name of paper	LEARNING OUTCOME
1	Advanced Abstract Algebra (I)	Unit-I Groups, Unit-II Field theory, Unit-III Perfect fields, Unit-IV
		Automorphisms of extensions, Unit-V Solution of polynomial equations
		by radicals
2	Real Analysis	Unit-I Sequences and series of functions, Unit-II Power series, Unit-III

		Functions of several variables, Unit-IV Jacobians, Unit-V Partitions of
		unity
3	Topology	Unit-I Countable and uncountable sets., Unit-II Alternate methods of
		defining a topology in terms of Kuratowski, Unit-III Separation axioms,
		Unit-IV Compactness, Unit-V Compactness in metric spaces
4	Advanced Complex Analysis (I)	Unit-I Complex integration, Unit-II Maximum modulus principle, Unit-III
		Residues, Unit-IV Definitions and examples of conformal mapping, Unit-V
		Spaces of analytic functions
5	Advanced Discrete Mathematics	Unit-I Formal Logic, Unit-II Homomorphism of semigroups and
	(1)	monoidsUnit-III Lattices, Unit-IV Direct Products and Homomorphisms,
-		Unit-V Grammars and Languages
6	Advanced Abstract Algebra (II)	Unit-I Modules, Unit-II Linear Transformations -, Unit-III Canonical
7		Forms, Unit-IV Smith normal form, Unit-V Rational canonical from
/	Real Analysis (II)	Unit-I Riemann-Stieltjes Integral, Unit-II Lebesgue outer measure, Unit-
		III Measures and outer measures, Unit-IV The Four derivatives, Unit-V
0	Concernal and Algobraic Topology	Functions of Dounded variation
0	General and Algebraic Topology	Embedding and metrization Unit IV Note and filter Unit V The
		fundamental group and covering spaces
9	Advanced Compley Analysis (II)	Unit-I Waierstrass' factorisation theorem Unit-II Analytic Continuation
9	Advanced complex Analysis (11)	Unit-III Harmonic functions on a disk Unit-IV Canonical products Unit-V
		The range of an analytic function
10	Advanced Discrete Mathematics	Unit-I Graph Theory, Unit-II Spanning Trees, Unit-III Directed Graphs
10	(II)	Unit-IV Introductory Computability, Unit-V Finite Automata
	()	
11	(Third Semester)	Unit-I Signed measure, Unit-II Lebesgue-Stieltjes integral, Unit-III Baire
	PAPER -I	sets, Unit-IV Normed linear spaces, Unit-V Weak convergence and
	Integration Theory and	bounded linear transformations
	Functional Analysis (I)	
12	(Third Semester)	Unit-I Examples of PDE. Classification, Unit-II Heat Equation, Unit-III
	PAPER -II	Generalized coordinates, Unit-IV Poisson's Bracket, Unit-V Attraction and
	Partial Differential Equations and	potential
	Mechanics (I)	
13	(Third Semester)	UNIT-I Fuzzy sets-Basic definitions, UNIT-II The Extension Principle,
	PAPER-III (C)	UNIT-III Fuzzy Relations on Fuzzy sets, UNIT-IV Fuzzy equivalence
	Fuzzy Set Theory and Its	relations, UNIT-V Possibility Theory
14	Applications [1]	Unit I Operations Descende and its Course Unit II Other Algoritheses Course
14	LINIFA SemesterJ	Unit-i Operations Research and its Scope, Unit-ii Other Algorithms for
	PAREK-IV (A) Operations Research (I)	Linear Programming, Unit-III Parametric Linear Programming, Unit-IV
15	(Third Samester)	In an sportation and Assignment Froblems, Unit-V Network Analysis
10	$PAPFR_V(R)$	Colouring packing and covering Unit-IV: Combinational formulations
	Graph theory (I)	Unit-V. Perfect Granhs
16	Functional Analysis (II)	Unit-I Uniform boundedness theorem Unit-II Hahn-Banach theorem
10		Unit-III Inner product spaces, Unit-IV Structure of Hilbert spaces, Unit-V
		Self-adjoint operators
17	Partial Differential Equations &	Unit-I Non-linear First Order PDE-, Unit-II Representation of Solutions.
	Mechanics	Unit-III Asymptotics, Unit-IV Hamilton's Principle, Unit-V Hamilton-Iacobi
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18	Fuzzy Set Theory & Its	Unit-I Fuzzy Logic, Unit-II Approximate Reasoning, Unit-III An
	Applications	introduction to Fuzzy Control, Unit-IV Defuzzification and the various
		defuzzitication methods, Unit-V Decision Making in Fuzzy Environment
19	Operations Research (II)	Unit-I Dynamic Programming, Unit-II Game Theory, Unit-III Integer
		Programming, Unit-IV Applications to Industrial Problems, Unit-V
		Nonlinear Programming
20	Graph Theory (II)	Unit-I : Ramsey Theory, Unit-II: GroupsUnit-III: Polynomials and Graph
		Enumeration, Unit-IV: Graph Enumeration, Unit-V: Digraphs & Networks