



GOVT. COLLEGE JULANA (JIND)

(Affiliated to C.R.S.University, Jind)

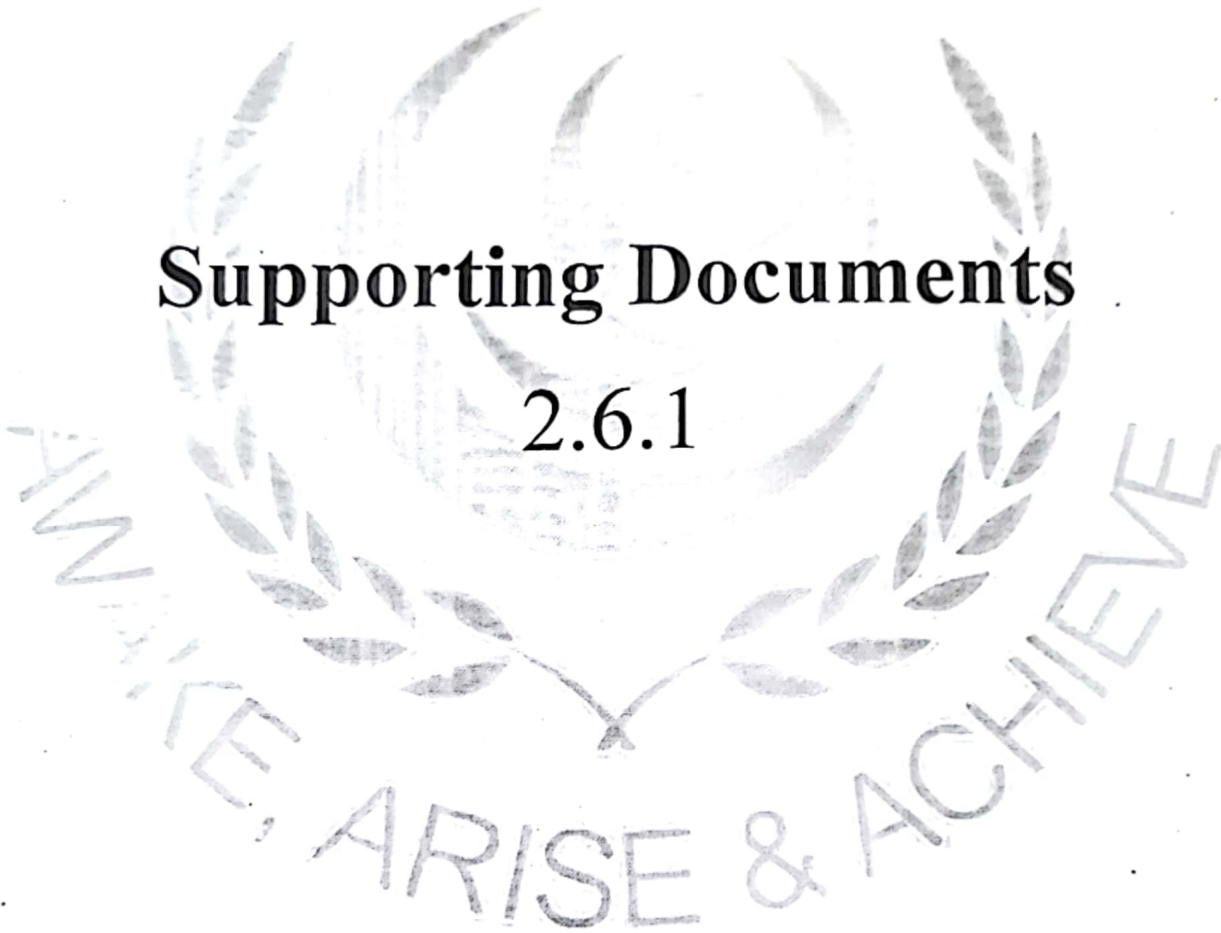
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Supporting Documents

2.6.1



1.1 List of courses offered across all programs during last five years

Program code	Program Name	Course code	Course Name	Year of introduction	Programme Outcome	Course Outcome
UG	B.Com	BC103	Principal of Business Management	2007-08	The Program offers various advantages to the students. They can find career opportunity in banking, retailing, education teaching, media communication and so on. The candidate can pursue higher study in diverse area of commerce.	Students will gain knowledge about the different functions of management which managers perform for smooth running of business and how different functions should be coordinated to achieve business
UG	B.Com	BC101	Financial Accounting -I	2007-08		It helps to know how to deal with financial matter
UG	B.Com	BC105	Bussiness Mathematics-I	2007-08		It helps the students in arrangement & selection of the data regarding the Permutation and combination,
UG	B.Com	BC102	Micro Economiocs	2007-08		Micro economics is useful for getting knowledge how market mechanism determines price in a free
UG	B.Com	BC106	Bussness communication	2007-08		Business communication helps to the students to know about different behaviour skill of
UG	B.Com	BC104	Introduction to Computer Application	2007-08		It provides the basic knowledge and use of computer basics like use of computer in ms- office.
UG	B.Com	BC206	Business Environment of Haryana	2007-08		Through this subject, student will familiarize with the surroundings of business in haryana which effect their working and also students will learn about diffierent strategies adopted by businesses under
UG	B.Com	BC201	Financial Accounting-II	2007-08		It will help the students to know the practical aspect of finance.
UG	B.Com	BC205	Business Mathematics-II	2007-08		Enable students to analyze real world scenarios to recognize when simple and compound interest,
UG	B.Com	BC202	Macro Economics	2007-08		Macroeconomics helps to understand how the economy is working as a whole. It focuses on the
UG	B.Com	BC204	E -commerce	2007-08		E -commerce provides details about various activities involved in electronic transaction of an
UG	B.Com	BC203	Fundamentals of Marketing	2007-08		Market is continuously changing and business can not survive without changing strategies regarding marketing mix so students will learn about strategies regrading four P's. students will gain knowledge
UG	B.Com	BC207	Environmental Studies (Qualifying Paper)	2007-08		Students learn various social issues and their relation with environment like sustainable development, urban problems related to energy, water conservation, rain water
UG	B.Com	BC306	Rural Marketing	2007-08		It will help the students to know the rural marketing activities taking in rural areas.
UG	B.Com	BC303	Bussiness law -I	2007-08		It helps to know about different laws regarding different business operation.
UG	B.Com	BC302	Bussiness Statistics-I	2007-08		Now statistics is used in all areas like business, industry, agriculture and education etc. because
UG	B.Com	BC301	Corporate Accouting- I	2007-08		It helps to understand the meaning of holding company merger and able to improve understanding about insurance and banking activities in numerical form.
UG	B.Com	BC304	Company Law-I	2007-08		It helps the students to know about corporation law, how often describes the matter which derive directly form the life cycle of a corporation.
UG	B.Com	BC305	Indian Financial System	2007-08		It describes that how the various financial markets in India play significant role in an economy.
UG	B.Com	BC403	Bussiness law -II	2007-08		It helps to know about different laws regarding different business operation.
UG	B.Com	BC401	Corporate Accounting-II	2007-08	It helps to understand the meaning of holding company merger and able to improve understanding about insurance and banking activities in numerical form.	
UG	B.Com	BC402	Bussiness Statistics-II	2007-08	It can be used for quality assurance, financial analysis, production and operation and many other business areas.	
UG	B.Com	BC406	Advertising	2007-08	It will help the students to know about how advertising use as non-personal form of communication.	

UG	B.Com	BC404	Company Law-II	2007-08		It helps the students to know about corporation law, how often describes the matter which derive directly form the life cycle of a corporation.
UG	B.Com	BC405	Computerised Accounting System	2007-08		It provides the information of accounting software Tally ERP 9 which is used to record the business transaction electronically and practice use of Tally ERP 9.
UG	B.Com	BC501	Cost Accounting	2007-08		Financial accounting is not able to provide per unit cost of product which is required for knowing the profitability of each product so cost accounting is used by mostly business. It also helps to the students to understand for any production and selling plans, it is important to have detailed data about the machines, labour capacity, level and level of efficiency of each process etc.
UG	B.Com	BC503	Income tax -1	2007-08		It helps to the students to know about various section of Tax, deduction and exemption to income tax.
UG	B.Com	BC505	Financial Management	2007-08		Students learn about different methods of managing finance because company have different options for collecting funds and utilising funds. They also familiarize with methods to optimize return of business by using available resources.
UG	B.Com	BC504	Auditing	2007-08		It will help to know about audit which mainly associated with gaining information about financial system and financial records of a company or a business.
UG	B.Com	BC502	Supply Chain Management	2007-08		It helps to understand how to improve efficiency, cost reduction effect and raise output.
UG	B.Com	BC508	GST	2007-08		It helps to the students to understand the meaning of GST and its application.
UG	B.Com	BC601	Management Accounting	2007-08		Financial Accounting provides information about profit, loss, assets and liabilities of bsuienss but not all information which is helpful in taking decions by management. Mangement accounting selects data which is useful for management and students gain knowledge about methods like budgetary control, standard costing, comparative statement, ration analysis , cash & func flow statement used for analysis purpose.
UG	B.Com	BC603	Income tax-2	2007-08		It helps to the students to know about various section of Tax, deduction and exemption to income tax.
UG	B.Com	BC602	Fundamental of Insurance	2007-08		It helps to understand the meaning of holding company merger and able to improve understanding about Insurance and banking activities in numerical form.
UG	B.Com	BC605	Business Environment	2007-08		It will helps to students to know about SWOT analysis, internal and external environment and environment scanning.
UG	B.Com	BC608	Human Resource Management	2007-08		It enables the students to understand the different human resource aspects.
UG	B.Com	BC604	Retail Management	2007-08		It will help to know the process which helps the customers to procure the desired merchandise form the retail stores for their personal use.
UG	B.A	HIST101	History of Ancient India	2007-08	The students acquire knowledge in the field of social sciences, literature and humanities which	History of Ancient India (Gupta period to early period) The course of this semester provides students with information from ancient times to the Gupta Empire. In which the development of human civilization and information about ancient kingdoms are available. Questions related to this course are also asked in competitive examlnations.

UG	B.A	HIST103	History of India	2007-08	make them sensitive and sensible.	The history of India (from 600 AD to 1526) gives students information about the course of this semester from Harshavardhana to 1526. It has information about Harshavdhan, Chola, Rajpool and Muslim invaders. Information about Sultanate society, politics, economy, art and culture is available in it. Questions related to this are also asked in the contestant.
UG	B.A	HIST201	Political History of INDIA	2007-08		Political history of India (from 1526 AD to 1857) The course of this semester provides students with information about the first war of Panipat from 1526 AD to the first freedom struggle of India. In this, children are aware of the establishment of Mughal dynasty, their policies, administration and decline. It contains information about the establishment, expansion and first freedom struggle of the English Empire in India. It helps students in competitive examinations.
UG	B.A	HIST203	Indian national movement	2007-08		The course of this semester makes information available from the establishment of the Congress to the partition of India. It contains laws introduced in India by the freedom movement of India, revolutionary activities, and the British. Questions are asked in competitive exams from this course.
UG	B.A	HIST302	Rise of modern world	2007-08		The course of this semester provides information from feudalism to agricultural revolution in Europe. In this, information about the global, economic and intellectual events is found. The course is helpful for students in preparing for competitive exams.
UG	B.A	HIST303	Modern world	2007-08		he course of this semester provides information about the modern world. This gives the students information about modern world revolutions. This course helps students prepare for competitive examinations.
UG	B.A	BECO101	Principle of Micro economics-I	2007-08	The students upon completion of B.A (Pass) Economics Programme will be able to Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions.	Micro economics is useful for getting knowledge how market mechanism determines price in a free market economy. It also helps in business planning and preparation of competitive exam.
UG	B.A	BECO201	Principle of Micro economics-II	2007-08		Macroeconomics helps to understand how the economy is working as a whole. It focuses on the changes in economy such as unemployment, growth rate,GDP, and inflation. It is important part for competitive exams like, UPSC, IES, SSC, HSSC, etc.
UG	B.A	BECO301	Principle of Macro economics-I	2007-08		It identifies the economics problems, causes and their consequences in developing countries and also tells how to overcome these problems.
UG	B.A	BECO401	Principle of Macro economics-II	2007-08		The field of economics development is intended to ground students in a variety of analytical perspective on the development process. This subject is also useful in respect to competitive exams.
UG	B.A	EC05	Economics of Development	2007-08		
UG	B.A	EC06	Indian Economy	2007-08		
UG	B.A	ENG101	English Compulsory	2007-08		Students get a better understanding of genres of literature. Students develop a

UG	B.A	ENG102	English Compulsory	2007-08	comprehensive understanding of vocabulary in a better manner. Functional and	The book 'Literature and Language' is prescribed for 2 nd semester. This Syllabus is based on Indian Literature. The student learn this syllabus about Indian culture. It involves the study of stories. Students can improve Communication.
UG	B.A	ENG201	English Compulsory	2007-08	advanced grammar prescribed in the syllabus avails the chance for students	This book 'Fragrances' is prescribed for poetry. The students learn poetic forms through this book. Students can improve language skills. The students can learn about materialistic through the poetry.
UG	B.A	ENG202	English Compulsory	2007-08	to solve complex issues related to language usage.	The book 'Centrestage' is prescribed for 4 th semester. Through this syllabus the student learns about American, Russian and Indian Literature. They can improve their language skills. It is beneficial for the students of competitive exam.
UG	B.A	ENG301	English Compulsory	2007-08		1. Indian writer Raja Rao's Novel "kanthapura" is prescribed for this semester. 2. The students can understand the important of "Non Violence" through this novel. 3. The students can aware about the vices of caste – system that is prevailing in our society. 4. It is a Gandhian literature and the students can know about Indian independence movement through this play.
UG	B.A	ENG302	English Compulsory	2007-08		Shakespeare's famous play "the merchant of Venice is prescribed for this semester. The students learn about "Money is not everything." The students also learn that "Debt can be dangerous". The Students can improve their communication skill through this play. It is a tragic-comedy.
UG	B.A	HIC 101	Hindi Compulsory	2007-08	Students get a better understanding of genres of literature.	This book gives students information about the major poets of Bhaktakal and Ritikal. Questions related to Hindi literature are also asked in competitive examinations.
UG	B.A	HIC102	Hindi Compulsory	2007-08	Students develop a comprehensive understanding of	The course of this semester highlights the drama genre in Hindi literature. Incidents based on secret years give students information about history.
UG	B.A	HIC201	Hindi Compulsory	2007-08	vocabulary in a better manner. Functional and	The course of this semester introduces students to the writing style of modern-day poets.
UG	B.A	HIC202	Hindi Compulsory	2007-08	advanced grammar prescribed in the syllabus avails the chance for students	The syllabus of this semester which shows the development journey of 'Kahaani' in Hindi literature arouses the interest of students in this genre.
UG	B.A	HIC301	Hindi Compulsory	2007-08	to solve complex issues related to language usage.	The course of this semester introduces the students to the social consciousness of modern poets.
UG	B.A	HIC302	Hindi Compulsory	2007-08		The syllabus of this semester illuminates the essay mode. Questions related to this are also asked in competitive examinations.
UG	B.A/B.Sc (N.M.)	BM- 111	Algebra	2007-08	Students understand different Mathematical concepts and improve their logical and mental	Topics for exam matrices, polynomial, equations, solution of cubic and biquadratic equation are covered under this course. These are some basic concepts of mathematics which have application in different Branches of science.

UG	B.A/B.Sc (N.M.)	BM-112	Calculus	2007-08	Reduction formulae, integration, differentiation, quadrature, rectification, limit continuity are covered under calculus. These topics have a wide application in Mathematics as well as other branches of science.
UG	B.A/B.Sc (N.M.)	BM- 113	Solid Geometry	2007-08	Students will be able to find the tangents and normal to the conic and tracing of the conics. Students will learn the characteristics of spheres, cones, cylinders, central conicoid and paraboloids.
UG	B.A/B.Sc (N.M.)	BM- 121	No. Theory and Trigonometry	2007-08	Understand the definitions of congruence, residue classes and least residues add and subtract integers, modulo n, multiply integers and calculate powers, modulo n. Determine multiplicative inverses, modulo n and use to solve linear congruence. Learn the theory of quadratic residues.
UG	B.A/B.Sc (N.M.)	BM-122	Ordinary Differential Equation	2007-08	Differential equations have a remarkable ability to predict the world around us. They are used in a wide variety of disciplines from biology, Physics, economics, physics, chemistry and engineering. They can describe exponential growth and decay, the population growth of species or the change in investment
UG	B.A/B.Sc (N.M.)	BM- 123	Vector Calculus	2007-08	Vectors and geometry has a wide use in Physics, chemistry, engineering etc.
UG	B.A/B.Sc (N.M.)	BM-231	Advanced Calculus	2007-08	Limit, continuity, differentiability of one variable, limit, continuity, differentiability of two variables etc. Topic are covered under advance calculus. This will help students to understand higher. Approach to functions and solution of function.
UG	B.A/B.Sc (N.M.)	BM -232	Partial differential equation	2007-08	partial differential equations are used to formulate the solutions of problems involving functions of several variables such as propagation of heat or sound have, fluid flow etc.
UG	B.A/B.Sc (N.M.)	BM- 233	Statics	2007-08	Draw complete and correct free-body diagrams and write the appropriate equilibrium equations from the free-body diagram. Determine the support reactions on a structure.
UG	B.A/B.Sc (N.M.)	BM- 241	Sequence and series	2007-08	Determine the sequence whether it is convergent or divergent by using the appropriate tests. Find the sequence of partial sum for an infinite series.
UG	B.A/B.Sc (N.M.)	BM- 242	Special Functions and Integral Transforms	2007-08	Solution of differential equation. Detail study of Laplace Transform and Fourier Transform.
UG	B.A/B.Sc (N.M.)	BM- 243	Programming in C and Numerical Analysis	2007-08	Students will be able to make programs based on numerical methods Co-1 Use of functions Co user defined functions, declaration , calling etc.
UG	B.A/B.Sc (N.M.)	BM-351	Real Analysis	2007-08	Real analysis is useful to observe the behaviour of real numbers, mapping/function, especially distance function, among different sets of real numbers.

UG	B.A/B.Sc (N.M.)	BM-352	Groups and Rings	2007-08		It is useful to study the application and behaviour of elements of different structures with respect to the well-defined operations with them. It is also used to manage/observe the different permutation/probabilities of realistic events.	
UG	B.A/B.Sc (N.M.)	BM-353	Numerical Analysis	2007-08		It is useful to find out the approximate solutions of a problem instead of exact solutions whenever we are unable to find out them exactly.	
UG	B.A/B.Sc (N.M.)	BM-361	Real & Complex Analysis	2007-08		Understand the stereography projection of complex plane on the Riemann sphere. 4. Under the significance of differentiability and analyticity of complex functions leading to the Cauchy Riemann equations.	
UG	B.A/B.Sc (N.M.)	BM-362	Linear Algebra	2007-08		Study of linear algebra discusses about the linear operators, linear transformations and linear combination etc. of vectors in the linear space. It is useful to analyse some natural phenomena like reflection, rotation and projection of basic objects in the linear space.	
UG	B.A/B.Sc (N.M.)	BM-363	Dynamics	2007-08		It analyse the movement of object/bodies under the influence of different forces.	
UG	B.A	POL101	Indian Constitution	2007-08	Students evaluate the various aspects of Indian political system including political parties, public opinions, elections, caste and communalism. And also they develop an understanding of the ideas of Modern Indian Political thinkers.	This is an optional paper which cover historical development and constitution set-up from top to bottom in India. It held to the students for getting knowledge regarding their rights & duties.	
UG	B.A	POL103	Indian Politics	2007-08		It's also an optional paper which cover whole political system in our country. It helps to the students for gaining knowledge about Politico- Administration structure.	
UG	B.A	POI202	Indian Political Thinkers-I	2007-08		In this Optional Paper students have to advice teachings and moral values given by the various Political Thinkers.	
UG	B.A	POL204	Indian Political Thinkers-II	2007-08		This optional Paper Covers life history, teachings and struggles for freedom. It helps to the students for getting useful moral valuable knowledge.	
UG	B.A	PS-05	Comparative Politics	2007-08		It Covers formal and informal structures of the various Political Institutions. It helps the students to obtain knowledge regarding Comparative study of various Political systems.	
UG	B.A	PS-06	Comparative Constitutions of USA & UK	2007-08		This paper covers comparative study of the constitutions of UK and USA. It helps the students to get knowledge about comparative study of both constitutions.	
UG	B.A	GEOG10 1	Geography of India	2007-08		Students are aware about Human geography, Economic geography, Physical geography, Climate origin and different geographical concepts.	This paper includes the vast knowledge of India's physical and cultural aspects. It also covers the G.K part for every competitive exam.
UG	B.A	GEOG10 2	Maps, Scales (Practical)	2007-08			
UG	B.A	GEOG10 3	Physical Geography- I (Geomorphology)	2007-08	It covers the geomorphology branch of the subject. Which includes the theories and concepts about earth & landforms?		
UG	B.A	GEOG10 4	Representation of Physical Features (Practical)	2007-08	It covers the geomorphological branch of the subject. Which includes the land features, Interpretation of weather map, Methods representing relief, Land profiles e.g. Slopes, Hills, Contours etc.		
UG	B.A	GEOG20 1	Physical Geography- II	2007-08	This paper includes the topic of weather & climate. It enhances the knowledge about atmosphere, monsoon environment issues like global warming and pollution etc.		

UG	B.A	GEOG20 2	Representation of Climatic Data (Practical)	2007-08		
UG	B.A	GEOG20 3	Human Geography	2007-08		This branch includes the social and cultural aspects of India & world. Which have a great importance for population studies. The students interact with human aspects of geo.
UG	B.A	GEOG20 4	Map Projections (Practical)	2007-08		
UG	B.A	GEOG30 1	Economic Geography	2007-08		This paper covers the all economic activities in the world. It aware the students about resources in the world. Which have great importance for sustainable development for the future world.
UG	B.A	GEOG30 2	Distribution Maps, Diagrams, Remote Sensing(Practical)	2007-08		
UG	B.A	GEOG30 3	Introduction to Remote Sensing	2007-08		This part of Geography is more scientific & technical.It provides the latest knowledge of recent technology used in geography. It gives big carrier opportunities to the students in private field and multinational software companies.
UG	B.A	GEOG30 4	Field Survey Report (Practical)	2007-08		
UG	B.A	EVS-201L	Environemental Studies	2007-08		This subject provides knowlege regarding various social and environmental issues like optimal use of renewable and non renewable resources, rain water harvesting, water conservation, sustainable development and also learn about legislative methods for dealing environmental issues.
UG	B.A	L1-(I)	Computer Awareness Level1(Basic Computer Education)	2007-08	To increase ability to communicate computer science concepts, data structures.	This course provides knowledge about use of MS Word, MS Excel, MS Powerpoint and fundamentals of computer and its use. Students will learn practical use of various menus of MS Office.
UG	B.A	L1-(II)	Computer Awareness	2007-08		This course provides knowledge about use of MS Word, MS Excel, MS Powerpoint and fundamentals of computer and its use.
UG	B.Sc (Non-Medical)	CPL-102	Mechanics 1	2007-08	A logical and coherent understanding of different academic fields of physics and its distinct learning areas and applications in basic physics like Mechanics, Solid State Physics, Atomic and Molecular Physics, Nuclear and Particle Physics, Quantum Physics, Optics, Thermodynamics and Statistical Physics and its B.Sc. (Pass) Physics association with related disciplinary subjects like Chemistry Environmental	Understand the role of vectors and coordinate systems in Physics. Explain the conservation of energy, momentum, angular momentum and apply them to basic problems.
UG	B.Sc (Non-Medical)	CPL-103	Electricity and Magnetism I	2007-08		Electrostatics physics study the either Stationary or moving electric chargesWhere magnetism is defined as the Physical phenomenon produced by Moving electric charge.
UG	B.Sc (Non-Medical)	CPP-108	Physics Lab-I	2007-08		
UG	B.Sc (Non-Medical)	CPL-202	Mechanics 2	2007-08		Understand the role of vectors and coordinate systems in Physics. Explain the conservation of energy, momentum, angular momentum and apply them to basic problems.
UG	B.Sc (Non-Medical)	CPL-203	& Electricity, Magnetism and Electromagnetic Theory-II	2007-08		An interaction between electricity and Magnetism as when an electric current. Generates a magnetic field and vice Versa.
UG	B.Sc (Non-Medical)	CPP-208	Physics Lab-II	2007-08		
UG	B.Sc (Non-Medical)	CPL-302	Heat and Thermodyamics	2007-08		To study Infrared spectrum of simple harmonic oscillator, idea of vibrational frequencies
UG	B.Sc (Non-Medical)	CPL-303	Semiconductor Device	2007-09		It is the branch of physics that use method of probability theory and Statistics

UG	B.Sc (Non-Medical)	CPP-308	Physics Lab-III	2007-08	sciences, Computer Science and Statistics.	<p>It studies interferences, diffraction, Polarization and other phenomenon for which the ray approximation of Geometric.</p> <p>understand how statistics of microscopic world can be used to explain the thermal feature of macroscopic world, be able to use thermal and statistical principal in ide range of applications, experience the diverse application of wave equation. It is the branch of optics that describe The theory and practise of laser.</p> <p>The physics of atomic nuclei and their interaction especially in the generation of <u>nuclear energy</u>. Solid state physics is the study of rigid Matter or solid where Nano physics is the physics of structurers in Nano meter range.</p> <p>Comprehend the failure of classical EM theory and need of quantum theory. Study the basics Quantum theory formulation i.e., wave particle duality and Heisenberg uncertainty principle.</p> <p>Quantum physics build the connection between mathematical development and conceptual understanding, solid state physics explore the important connection between experiment and current applications, develop and communicate analyticate the analytical skills in subatomic physics. Understand the general characters, classification upto classes of Kingdom Animalia and Phylum Porifera, Phylum Protista, Cnideria, Platyhelminthes, Nematohelminthes, annelids, Arthropods and Molluses, metamorphosis and metamerism of some Non Chordates. Understand the general characters, classification upto classes of groups Echinodermata, Protochordates, Agnatha, Pisces, Amphibia, Reptiles, Aves and Mammals, water Vascular system, osmoregulation, poisonous and non poisonous snakes, flight adaptation and origin mammals. Understand the specimen organisms of phym non chordates, study of life history of sycon, ascaris, taenia using permanent slides, identify and studey the poisonous and non poisonous snakes using photos, cutouts and models.</p>
				2007-08		
UG	B.Sc (Non-	CPL-402	Statistical Physics	2007-08		
UG	B.Sc (Non-	CPL-403	Waves And Optics	2007-08		
		CPP-408	Physics Lab-IV	2007-08		
UG	B.Sc (Non-Medical)	PH 501	Quantum And Lazer Physics	2007-08		
UG	B.Sc (Non-Medical)	PH 502	Nuclear Physics	2007-08		
UG	B.Sc (Non-Medical)	PH 601	Solid State Physics	2007-08		
UG	B.Sc (Non-Medical)	PH602	Atomic and Molecular Spectroscopy	2007-08		
UG	B.Sc (Non-Medical)		Physics Lab- IV	2007-08		
UG	B.Sc(Non-Medical)	CCL-104	Inorganic Chemistry	2007-08	B.Sc. Chemistry curriculum is so designed to provide the chemistry students a comprehensive understanding about the fundamentals of covering all the principles and perspectives. 2. The branches of Chemistry such as Organic Chemistry, Inorganic Chemistry, Physical Chemistry and Analytical Chemistry expose the diversified	<p>To enhance the knowledge of the students about the deduction of extra element in any organic mixture & separation of mixture by chromatography (Rf value). And learn about volumetric Analysis in which one substance of known conc. and volume is used to react with another substance of unknown conc. To enhance the knowledge of the students about the Aromatic hydrocarbon, Alkyl and Aryl halides and the methods of preparation of Alcohol, Phenol, Ether Aldehyde & Ketones and arrange the laws of thermos-dynamics for chemical reaction and calculate the internal energy and heat exchange. Physical chemistry is the branch of chemistry which support in different ways to understand the subject theoretically which needs the help of certain tools & the mathematical tools are important amongst it thus understanding the mathematical ideas. To make students understand the purification of organic compound by crystallization and detemination of boiling and melting point of organic compounds. Students become eligible to calculate Ph of different solution and detemination of heat capacity, enthalpy f neutrallization, enthalpy of ionisation. To enhance the students about the metal – ligand bonding in coordination chemistry and phase diagram of one and two component system. To enhance the ability of students in understanding rate of reactions, theory of reactions and kinetic theory of gases.</p>
UG	B.Sc(Non-Medical)	CCL-105	Organic Chemistry	2007-08		
UG	B.Sc(Non-Medical)	CCP-109	Chemistry Lab-I	2007-08		
UG	B.Sc(Non-Medical)	CCL-204	Organic Chemistry	2007-08		

UG	B.Sc(No n- Medical)	CCL-205	Physical Chemistry	2007-08
UG	B.Sc(No n- Medical)	CCP-209	Chemistry Lab-II	2007-08
UG	B.Sc(No n- Medical)	CCL-305	Organic Chemistry,	2007-08
UG	B.Sc(No n- Medical)	CCL-304	Physical Chemistry	2007-08
UG	B.Sc(No n- Medical)	CCP-309	Chemistry Lab-III	2007-08
UG	B.Sc(No n- Medical)	CCL-404	Inorganic Chemistry	2007-08
UG	B.Sc(No n- Medical)	CCL-405	Physical Chemistry	2007-08
UG	B.Sc(No n- Medical)	CCP-409	Chemistry Lab-IV	2007-08
UG	B.Sc(No n- Medical)	CH-301	Inorganic Chemistry	2007-08
UG	B.Sc(No n- Medical)	CH-302	Physical Chemistry	2007-08
UG	B.Sc(No n- Medical)	CH-303	Organic Chemistry,	2007-08
UG	B.Sc(No n- Medical)	CH-304	Inorganic Chemistry	2007-08
UG	B.Sc(No n- Medical)	CH-305	Physical Chemistry	2007-08
UG	B.Sc(No n- Medical)	CH-306	Organic Chemistry,	2007-08

aspects of chemistry where the students experience a broader outlook of the subject.

To understand the concept and types of isomerism, resonance, hyperconjugation, inductive effect, electrometric effect & their comparison. To understand R & S systems and E & Z system of nomenclature, conformational analysis of ethane and n-butane & Newman projection and Sawhorse formulae To understand the Types of organic reactions & Energy considerations, Reactive intermediates, carbocations, carbanions, free radicals, carbenes, arynes and Nitrenes. Knowledge of IUPAC nomenclature of branched and unbranched alkanes.

To enhance the knowledge of students in Kinetic theory of gases, liquid, solid and chemical kinetics. To enhance the ability of students in deduction of inorganic compound by help of inorganic analysis and determine the rate of reaction by chemical kinetics also be determine the surface tension and viscosity of a given liquid.

Aims to educate the students about carbohydrate chemistry and NMR spectroscopy which help in developing.

To make students understand the study of microscopic particles in Quantum mechanics & study about physical spectra (Rotational, Vibrational, Raman spectra)Aims to educate the students about carbohydrate chemistry and NMR spectroscopy which help in developing.

To develop a better understanding of inorganic substances in terms of acid, base and their practical uses in Human life.

To enhance the knowledge of students about solution chemistry and some photochemical reaction helping us in day to day life.

TO enhance the knowledge students about the synthesis & chemical reactions heterocyclic compounds . And also study about the structure and nomenclature of amino acid, peptides, proteins & synthetic polymers.

To enhance the knowledge of students about the analysis of acid & base radical in any organic mixture. And also the strength of the acid solution & solubility of soluble electrolyte.


To understand Maxwell's distribution of velocities, Deviation of Real gases from ideal behaviour and Derivation of Vander Waal's Equation of State and its applications. Knowledge of Critical temperature, Critical pressure, critical volume,

The students will achieve an increased fluency in reading and writing skills and are apprised about common errors they commit in their daily usage of words and sentences in the subject of English. Students also learn about sentence formation, grammatical rules and awareness of translations.

This subject provides knowledge regarding various social and environmental issues like optimal use of

UG	B.Sc(Non-Medical)	CH-307	Chemistry Lab Practicals	2007-08		renewable and non renewable resources, rain water harvesting, water conservation, sustainable development and also learn about legislative methods for dealing environmental issues. The course helps the students in developing rational thinking regarding social issues and also develop their creative writing skills. It also incorporates personal experiences which will help students in becoming a responsible person.
UG	B.Sc	CXL-101	English-I (Language Skills-I)	2007-08	Students get a better understanding of genres of literature. Students develop a comprehensive understanding of vocabulary in a better manner.	This subject helps the students to acquire the skills of language and communication in order to be successful in their studies and subsequent professional life, the curriculum has been designed to improve the knowledge the language comprehension and its application to develop the communication skill.
UG	B.Sc	CYL-111	Environmental Studies	2007-08		
UG	B.Sc	CXL-201	English-II (Language Skills-II)	2007-08		Topics for exam matrices, polynomial, equations, solution of cubic and biquadratic equation are covered under this course. These are some basic concepts of mathematics which have application in different Branches of science. Reduction formulae, integration, differentiation, quadrature, rectification, limit continuity are covered under calculus. These topics have a wide application in Mathematics as well as other branches of science. It is practical subject in which practical knowledge of programming in C is given. and it is well known to us that programming in 'C' has wide application.
UG	B.Sc	CXL-301	Hindi-I (Language Skills-III)	2007-08		
UG	B.Sc	CXL-401	Hindi-II (Language skills-IV)	2007-08		


REGISTRAR


Principal
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Govt. College, Julana