



RAJIV GANDHI GOVT. COLLEGE FOR WOMEN, BHIWANI

Hansi Road, Bhiwani- 127021 (HARYANA)

Affiliated to CBLU Bhiwani. Recognized u/s 2 (f) & 12 (B) of UGC Act

AISHE CODE: C28016

Ph. 01664255118

Website: www.gcwbhiwani.com

Email: gcwbhiwani@gmail.com

Program Outcomes

Program Outcomes of Bachelor of Arts (B.A.) Pass-course

Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected goals.

- PO 1. The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.
- PO 2. The B.A. graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.
- PO 4. The B. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
- PO 5. The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
- PO 6. Programme provides the base to be the Critical temper, Creative ability, Realization of human values, Sense of social service responsible and dutiful citizen.

Program Outcomes of Bachelor of Commerce (B.Com.) Pass-course

- PO 1. The B. Com. Graduates would be able to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.
- PO 2. The program also empowers the graduates to appear for various competitive exams or choose a profession of their choice such as CA, CS, ICWA, MBA, M.Com etc.
- PO 3. The program enables the students to acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.
- PO 4. The students also acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business laws.
- PO 5. The students become capable of doing a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities.
- . The students also acquire the knowledge and skills of taxation laws by which they can start the business of filling Income tax and GST returns.

Program Outcomes of Bachelor of Science (B.Sc.) Pass-course

- PO 1. The B. Sc. Programme develops scientific temperament and attitude among the science graduates.



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- PO 2. The qualities of a science – observation, precision, analytical mind, logical thinking, clarity of thought and expression, systematic approach, qualitative and quantitative decision making are enlarged.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.
- PO 4. This programme trains the learners to extract information, formulate and solve problems in a systematic and logical manner.

- PO 5. This programme enables the learners to perform the jobs in diverse fields such as science, engineering, industries, survey, education, banking, development-planning, business, public service, self business etc. efficiently.

Program Outcomes of B.Sc. Computer Science

- PO 1. This programme makes learners aware of the history of the discipline of Computer Science and understands the conceptual underpinnings of the subject.
- PO 2. Students understand the nature of the software development process, including the need to provide appropriate documentation.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of MSc Computer Science.
- PO 4. Understand the nature of the software development process, including the need to provide appropriate documentation. for solving a problem on a computer, including programming techniques.
- PO 5. Understand standard techniques for the representation of information.



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Program Specific Outcomes(PSOs)

Course Outcomes (COs)

B.A. Course Outcomes (COs)

B.A. English Compulsory

- B.A. English (SEM-1) C.O. 1:- Essays- Contain inspirational Contents about various mythological and scientific concepts about origin of universe, culture, scientific development and moral ethical learning and offer scope for effective spoken and writing skills.
- B.A. English (SEM-2) C.O.2:- Stories- offer interaction with life in various phases and cultural and economic backgrounds and scope for grammar learning and application for developing effective writing ability.
- B.A. English (SEM-3) C.O.3:- „Poetry“ offers interaction to forms of Poetry, stanza forms and various poetic styles and offers ample scope in building up aesthetic rhyming skills and communication skills.
- B.A. English (SEM-4) C.O.4:- One Act plays offer glimpse of life and render effective training in coping up with precarious situations in life.
- B.A. English (SEM-5) C.O.5:- Fiction has the novel Kanthapura in the syllabus which offers interaction to Indian writing in English and India’s political, economic and social history in pre-independence times and role of Gandhian ideology and awakening in tackling exploitation of colonial rulers.
- B.A. English (SEM-6) C.O. -6:- Drama has „The Merchant of Venice“ in the syllabus and it sensitizes the students regarding prevailing religious conflicts and promoting sense of sacrifice for promoting friendship and fighting inhumanity and cruelty.



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BA III HINDI (COMPULSORY)

CLASS (ंद)	COURSE (ंद)	OUTCOMES (Students will be able to) ि ंद 75`9
ीY ँँ]	1. ंद ंद ंद 2. हिंदक ंद इंइह ंद 3. ंद ंद औ]	हिंदक ंद इंइह ंद, ंद औ]क] ंद ँँFT, Jf, ंद औ]Tदीं] f ंद ँद ँद,]द, J द]द]द]द कविओं] द]द]क] ंद] ंद ंद Y]क]द,]क]द औ]क] RJ
ीY द Jी ँँ]	1. ंद 2. हिंदक ंद इंइह ंद 3. ंद] हिंदक ंद	ँद ंद ंद औ]7 f ंद द ंद हिंदक 4 ंद औ] ंद ह ंद]द]द ंद ंद ंद औ] ंद ंद ँद]द
ीY द Jी Jी ँँ]	1. J द हिंदक f] 2. हिंदक ंद इंइह ंद 3. ंद हिंदक - हिंदक द f Jद	4 ंद हिंदक ंद 7द ह]द ंद ंद द]द ंद - ंद द-द द ँद ंद ंद गग]द ह]द ंद -ह f ंद T औ]Tद]द द]द ंद ंद ंद, ंद]द ंद, द]द]द ंद]द
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ीY Jी ग ंँ]	1. ंद हिंदक f] 2. हिंदक ंद इंइह ंद J द ँद 3. ंद हिंदक - ँद, ंद i द	द]द ंद ंद]द ंद Tद]द]द, Tद]द ंद]द]द ंद ंद]द]द ंद ंद, द]द ंद, द द]द]द ंद]द द-द]द, ंद]द, ह]द ंद ंद J द ंद औ]]द]द ंद]द]द ंद]द ंद ँद हिंदक J, J]द, ह औ]f ंद



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ॐ Y J J 6 ॐ ॐ]	1. dc J] द ौ] 2. ह]ॐ वी ॐॐ औ] ॐह ॐइफ]ह। 3. ॐT हिॐदक - ॐ]ॐ	द ॐद।Jd द ह औ]Tद ग]ॐ । ॐ द'f fāād ॐॐद]ॐद]ह]ॐ वी ॐह f f ॐ ॐ'द ।]ग]हो ॐद ॐ ॐद ॐ द J d ॐ ॐ'f ॐ] ॐॐद]ॐद]ॐद । द]J द Tी d ॐ ॐ'ॐ हो ॐ ॐ
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B.A./B.Sc. Sanskrit

B.A. 1st Year (First Semester)

1. "Sanskrit Vakavayvahar"-

- Through this students will be able to converse in Sanskrit.
- It is useful dialogue in folk behavior.
- They will get the knowledge of vocabulary of the society.
- They will be able to talks with each other, with parents and teachers.

2. "Hitopadesh"

- Retarded child will be able to gain knowledge about policies.
- Moral and religious teachings will give them an opportunity to be wise.
- Students will be intermingled with each other by reading the stories and can do even more and more difficult things together.
- They would not be collecting more money.

B.A.1st Year (2nd Semester)

1. „Anuvaad“"-

- It is helpful to write letter in Sanskrit.
- It is helpful to speak in Sanskrit.
- Through translation students will be able to write in Sanskrit language and learn to pronounce pour.
- They will talk to each other in Sanskrit language.

2. "Kanthasth Sloke"-

- Through memories verses students would be able to acquire knowledge Sanskrit language.

3."Dutyakayam"-

- Through this play the students will be known about the impressive personality of Shri Krishna.
- They will be able to process similar qualities in their life.
- They will not play gaming games.

4."Shuknasopdesh"-

- Through this prose the students will come to know about the character of Candrapid.
- They would be able to know about the playful nature of Lakshmi.
- They would be able to hold up the guru's sermons in their life.
- Reading this play, they would give up the life of luxury.

5."Chand"-



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- The students will be able singing with rhythm.
- They will know about the number of alphabets in verse.
- They will have knowledge of mantras.



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B.A. 2nd Year (3rd Semester)

1. "Ramayana"-

- Students will be able to know about first Kavya and first poet.
- They will acquire as innocent and spotless character as Rama.
- They will be able to become obedient son and brotherhood like Rama.
- The personality will be getting the qualities of truthfulness, protector of religion, firm pledge and philanthropist like Rama.

B.A. 2nd Year (4th Semester)

1."Shrimad Bhagvatgita"

- Through this the students will be able to get information about their culture, religion, karma yoga, atma and sthiatpragya.

2."Raguvansham"-

- Through this epic students will be able to know about kings of Ikshavaku dynasty especially Dilip, Raghu, Dasaratha and Ram's character.
- They will try to attain humility, dignity and duty according to them.
- They will also know the importance of "Gau-service".

3. Patar-lekhan-

- Students have learnt to write letters in Sanskrit language.
- Through this their grip will become strong on the Sanskrit language.

4. Smaas-

- Students will learn to brief the long posts.

5. Karidant partys-

- Students will learn to give new meaning to manage associations.

6. Partyahaar-

- Through this the students will learn to tame the senses.

B.Sc. 2nd Year (3rd Semester)

1."Isastav"-

- Through this lesson students will be able to know many forms of god such as the eternal, omnipresent, animate.
- Their spiritual wisdom will be increased.
- Positive ideology will develop in students.
- They would be able to avoid sin karma, irreligious works.

"Sadhuvartam"-



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- Through this verse students will be able to assume similar qualities as gentlemen.
- “Dhik Daridaryam”-
- Through this lesson they will be able to get information about the importance of wealth.
- “Darmjyo Rama”-
- This lesson will enable the students to become an ideal, dutiful, conscientious, obedient, theologian, virtuous like Rama.

2.”Anushasnam”-

- Through this lesson students will be able to learn to speak the truth, to follow the religion, to study and to respect their parents and teachers.
- They will be able to do all the work of their daily life and assume the matter of virtue.
- They will know that „who possesses wisdom has the power“. Brainless have no power.
- They will be able to learn that by abandoning one’s family and one’s caste people, one should not make others his own, otherwise there be death.

3. Shabad rupe-

- Through word forms, students will be able to acquire the knowledge of declension and word of honor.

4. Dhatu rupe-

- Through metal from students will be able to know about derivation of words and about person.

5. Sandhi-

- Students will learn how to match and divide words through sandhi.

6. Anuvaad-

- Through translation students will be able to write the Sanskrit language and learn to pronounce pour.

B.Sc 4th Sem Sanskrit

1. Padhay Bhag-

- Through “Dandh-sasti parja sarva” poem students will be able to get information about the importance of punishment.
- They will not do sinful act by the fear of punishment. The learn to obey their parents and teachers.
- Through “Sithith Pragma” poem the students will learn to concentrate their mind and intellect, to put restraint on the senses, to avoid anger and to avoid infatuation.
- Students will be able to accept the Teaching and policies conveyed by Chanakya.



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2. Gadhay Bhag-

- Through “Nasishayaopdisayate” lesson the students will be able to know that man should not preach unreachable and unfamiliar person. A bad company is one that gives fear, so they will not befriend durge persons. They would have not discussion about the act of other and focus on our work.
- They will learn by “Sundopsund” story that the war is always losing. They will be able to learn to act together.

B.A./B.Sc. Mathematics

B.Sc.-1/B.A.-1 (Semester-1)

- **CO -1: Algebra:**
- Work with matrices and determine if a given square matrix is invertible, system of equations, eigen values and eigen vector.
- Algebra is faster and basic maths.
- It reinforces logical thinking and may be a job skill later.
- **CO-2: Calculus:**
- Calculus the language of motion and change.
- It is used in analysing a system.
- Find an optional solution.
- Calculate definite integrals that may involve logarithms, exponentials, polynomials and powers by using fundamental theorems of calculus.
- This paper deals with asymptotes, curve tracing and quadrature.
- **CO-3: Solid Geometry:**
- To Study the application of 3D figure.
- To get Basic Knowledge about cone, parabola, hyperbola, ellipse etc.
- It is useful for vision.
- It leads to simpler computation of connectivity, within and between objects, and can be implemented more readily on a parallel architecture.
- **B.Sc.-1/B.A.-1(Semester-II)**
- **CO-1: Number Theory and Trigonometry:**
- Define and interpret the concepts of divisibility, congruence, greatest common divisor, prime factorization.
- Number theory is famous for generating easy-to-ask, hard-to-answer questions and that is one reason for its popularity.
- Nurture problem solving skills, thinking and creativity.
- **CO-2: Ordinary Differential Equations:**
- Evaluate first order differential equations including separable, homogeneous, exact and linear.
- Create and analyse mathematical models using higher order differential equations to solve application problems.



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- Recognise ODE's and System of ODE's concepts that are encountered in the real world, understand and be able to communicate underlying mathematics involved to help another person gain insight into the situation.
- **CO-3: Vector Calculus:**
- Calculate line integrals along path, fundamental theorem of line integrals, greens theorems, stoke theorems and divergence theorems.
- Vector calculus is concerned with differentiation and integration of vector field.
- It is used extensively in physics and engineering, especially in the description of electromagnetic fields and fluid flow.

B.Sc. II/B.A. II (Semester III)

- **CO-01: Advanced Calculus:**
- Continuity, uniform continuity and mean value theorems of function of one variables.
- Limit, continuity and Differentiability of function of more than one variable i.e. function of several variables.
- Parabolic function, Hyperbolic function in curve in space.
- **CO-02: Partial Differential Equation:**
- Basics Concepts of PDE, Solution of some special type of PDE.
- General and particular solution of PDE
- Heat, Wave and Laplace equation and solution of PDE.
- **CO-03: Statics:**
- Develop an understanding of how a machine applies force to work against load force.
- It is used to produce a conceptual link between the „macroscopic view“ and the „microscopic view“.
- This approach produces some useful insights and applications in many fields of virtual work, null lines, and wrenches.

B.Sc. II/B.A. II (Semester IV)

- **CO-1: Programming in C and Numerical Methods:**
- This book is aimed at advancing concepts of programming and software code organization within the framework of structural and procedural programming paradigms.
- Understanding a functional hierarchical code organization.
- Ability to define and manage data structure based on problems subject domain.
- Student can understand defensive programming concepts. They can handle possible errors during program execution.
- **CO-2: Sequence and Series:**
- This paper defines sequence and series and also identifying the different kind of sequence and series, common ratio of geometric sequence, A.M., G.M., H.M., Sum of infinite series.
- Student can learn to work with logarithm, exponential and inverse trigonometric functions.



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- They are able to find partial sum of an infinite series.
- **CO-3: Special Functions And Integral Transforms:**
- This book cover topics such as power series, Bessel's equation and function, Legendre's equation, Hermit equation, Laplace transformations, Fourier transformations.
- Students can understand integral calculus and special function of various engineering problem and to know the application of some basic mathematical method via all these special functions.
- They can able to explain the application and the usefulness of these special functions

B. Sc.III/ B.A. III (Semester-V)

- CO-1: Real Analysis:**
- This paper define and recognise the basic properties of the field of real numbers, the series of real numbers and convergence, Bolzano-weirstrass theorem, basic topological properties of R.
- It can improve and outline the logical thinking of students.
- Students are able to apply the theorem in correct way.
- Students can interpret how to know the real functions continuity and differentiability and their related problems based on their theorem's results.
- CO-2: Group And Rings:**
- This paper covers topics such as: abelian groups, cyclic groups, permutations, cossets, rings, integral domain, ideals, modulus, polynomials rings, and field.
- Students will be able to perform basic computations in group and ring theory.
- Students will become familiar with some application of abstract algebra which is useful for developing error correcting codes, encryption, and prediction of 3D structures.
- CO-3: Numerical Analysis:**
- Students will able to solve the probability based problems
- Students derive numerical methods for various mathematical operation and tasks, such as differentiation, integration. The solution of linear and nonlinear equation and solutions of differential equations.
- Students will solve the interpolation and exploration based problems.
- This course will develop an understanding of error analysis for numerical methods.

B. Sc.III/ B.A. III (Semester-VI)

- CO-1: Real And Complex Analysis:**
- This book contains topic such as: Jacobeans, Beta and gamma functions, Double and triple integrals, Fourier series, and calculus of complex functions.
- Students can understand how complex numbers provide a satisfying extension of the real numbers.
- Students can solve problems involving convolution, filtering, modulation and sampling.
- Students can learn techniques of complex analysis that make practical problems easy (e.g.



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graphical rotation and scaling as an example of complex multiplication.

CO-2 : Linear Algebra:

- This book covers topic such as: vector spaces and subspaces, basis and dimension, quotient space, linear transformation, rank and nullity, algebra of linear transformations, dual space, eigen values and eigen vectors.

- Students can solve system of linear equations.

- Students can recognize the concepts of the terms of span, linear independence, basis and dimension and apply these concepts to various vector spaces and subspaces.

CO-03: Dynamics:

- Students will construct free-body diagrams

- Students will discuss easily the motion on smooth and rough planes, general motion of rigid body.

- They will understand the analysis of distributed loads.

- They will understand a broad knowledge of internal forces and moments.

- They will be able to apply kepler's law to solve the problems.

BA Sociology

- CO1 (First Sem.) Basic Concepts in Sociology.

- CO2 (Second Sem.) Society Culture and social change. The Both papers deal with the basic concepts in society which is very much relevant in present scenario because the outcome of studies of these topics help students to live life of better citizens and with learning they can contribute positively in society.

- CO3 (Third Sem.) Methods in Social Research. The paper deals with the Methods in social Research. To do research is high demand of time now. By studying of this paper students can think scientifically about society and they can find solutions of many issues which are necessary in present time.

- CO4 (Fourth Sem.) Social Problems in India. This paper analysis the social problems in India and their causes and effects in society. This paper is helpful for learning the root causes of human problems in the society and plays role for the awareness about sensitive issues in society. After learning this paper students can contribute to make the Reduce impact of these problems in society.

- CO5 (Fifth Sem.) Foundations of Social Thought.

This paper is helpful for making any thoughts about the world. How do thoughts work and how can they impact individuals mind. Outcomes of such learning help to generate new thinking about functioning in society. For example the result of conflict approach is that in decision making process the views of other marginalised communities is also considered. Which creates the balanced approach in world.

- CO6 (Sixth Sem.) Rural Society: Structure and Change.

The concern of the subject matter of this paper is rural society and its structure. This paper mainly focuses on the emergence of agrarian patterns in society and how does it work. Other



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learning of this paper helps to understand the students how stratification factors play role for the working of social system in Indian society such as impact of caste, class and gender in society.

B.A Economics

B.A Economics Micro Economics 1st and 2nd Semester

- CO1: Demonstrate understanding of basic concepts of Business Economics.
- CO2: Analyse the Consumer behaviour through different approaches.
- CO3: Carry Out the consumer behaviour under different types of goods.
- CO4: Analyse the Consumer Behaviour under Certainty and Uncertainty.
- CO5: Demonstrate the Concept of Production function i.e.to analyses the economic behaviour of producer and Concept related to it.
- CO6: Explain the economic behaviour of Market in different types of market structure.
- CO7: Critically assess the theories and model related to market.
- CO8: Explain the concept of cost and how it affects firm's decision.

B.A 3rd and 4th Semester Macroeconomics

- CO1: Demonstrate the basic concepts of macroeconomics and its various variables.
- CO2: Carry out the accounting of national income using various methods.
- CO3: Understand about various school of thoughts related to macroeconomics.
- CO4: Explain Conceptual knowledge about Investment and its various theories.
- CO5: Demonstrate the basic understanding about Money Demand and its related concepts.
- CO6: Explain about Money Supply and role of Central bank.
- CO7: Carry out the analysis of Monetary and Fiscal Policy of India.
- CO8: Explain the concept of Inflation and how it affects economy.

B.A 5th and 6th Semester Development and International Economics

- CO1: Understand the concept of economic, economic growth and sustainable development.
- CO2: Explain the methods of measuring economic inequality and poverty.
- CO3: Analyze the economic contribution of some classical economists in growth theories.
- CO4: Understand the implacability of some very critical growth models in economic development so far. CO5: Understand and compare some growth models with each other for some betterment of economic growth models.
- CO6: Analyze the role of education, learning and skill in human capital formation.
- CO7: Explain the role of technological progress in a country.
- CO8: Explain balanced and unbalanced model of development.
- CO9: Understand the concept of international trade. Theory of international trade, Concept of BOP and Foreign Exchange.
- CO10: Critically Evaluation of International Organization i.e. IMF, WTO, IBRD BRICS.

BA History

B.A (Sem-I): History of India (from earliest times -1200 A.D.), Sources of ancient India, Harppan civilization, Vedic Age, Religious movements, Mauryan and Gupta Empire.



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B.A (Sem-II): History of India (1200 A.D. to 1707 A.D.), Delhi Sultanate, Mughal Empire, Administrative Institutional, Bhakti movement, Sufi movement.

B.A (Sem-III): History of India (1707 A.D. to 1947 A.D.), Disintegration of Central authority, Revolt of 1857, Indian cultural renaissance, British land revenue policy, National freedom movement (1885-1947), Constitutional Development 1909 to 1935.

B.A (Sem-IV) : History of Haryana (from earliest times to 1947 A.D.), sources of Haryana, Kurus, Yaudhyas and Agras, Revolt of 1857, Arya Samaj, Freedom movement in Haryana.

B.A (Sem-V) : Ancient and Medieval world, Pre-Historic cultures, Bronze age civilization, Iron Age, Federalism, Islamic world, Reformation.

B.A (Sem-VI) : Mercantilism and beginning of capitalism, Agricultural Revolution, French Revolution, First and Second world war.

BA (Political Science)

(Sem-01) PAPER: Indian constitution

- It is very useful for the competitive exams like UPSC, HPSC, and SSC etc.
- We get the knowledge of fundamental duties & rights.
- We also get the information about Union, state executives, legislature & judiciary.

(Sem-02) PAPER: Indian Politics

- We get to know about our elections & EVM machines.
- We found the information about our MLA's & MP's jobs & responsibilities.
- It's also important to know about the roles & responsibilities of our state & central ministers.
- Useful in competitive exams.

(Sem-03) PAPER : Principles of Political Science –I

- Get the knowledge of state, its elements, origin & its development.
- Found the information regarding the distinction between state & society.
- It also provides the information about sovereignty, its nature & kinds.

(Sem-04) PAPER: Principles of Political Science –II

- We get to know about right to information and consumer protection.
- Also get the knowledge of nation, nationalism & citizenship.
- Find the information about rights, liberty & equality.

(Sem-05) PAPER 5 : Comparative Politics

- We get to know about the voting behavior of country.
- It provides us the information about structural functions & political development approaches.
- Also find the knowledge about constitutionalism.

(Sem-06) PAPER: Comparative constitutions of UK & USA



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- Students get to know about the comparative study of US & USA for their government & constitutions.
- We get to know about the rules of Govt. making in other countries like US & USA.
- We can get comparative elements of constitutions of US & USA.
- Useful in competitive exams as well.

BA Geography

Semester 1st Geography

- The syllabus of geography for undergraduate course has been divided into six semesters through which different theories and practical papers have taught to the students to enhance their knowledge about subjects.
- During 1st semester theory paper of Geography of India and practical paper Map and Scales teaches to the students. The basic objectives of theory paper are to develop the comprehensive understanding of the geographical profile of India.
- The roll of geographical attributes in determining social and economic structure of country has very much significant.
- The overall outcome of this course is to enable the students to enhance the basic understanding about physical and cultural features of our country.
- Whereas if you talk about practical paper, this course aimed to provide the basic understanding of particular technique of drawing, cartograms, maps to show various natural and socio-economic attributes of a region.

Semester 2nd Geography

- The knowledge of physical Geography has given to students during 2nd semester.
- The main objective of this course is to introduce the students the basic and fundamental concepts of physical geography and geomorphology.
- In this semester practical paper Representation of Physical Features has been introduced aiming with to provide basic understanding about structure of Topographical maps and representation of geographical features through various techniques on maps to students.

Semester 3rd Geography

- Climatology and Oceanography are two important branches of Physical geography have been taught to the students during this semester.
- The major objectives of this course is to enhance the basic understanding about structure of atmosphere and its circulation, weather, climate and other associating phenomena.



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- The origin movements and configuration of oceans are also covered in this semester.
- Where as in practical paper Representation of climate data, the students would be unable to acquaint themselves about the different instruments to measuring various weather elements and methods to represent them on the plain paper.

Semester 4th Geography

- During 4th semester the theory paper Human Geography has been introduced and the main aim of this course is to acquaint the students with basics of human geography- nature of man environment relationship and human capability to adopt and modify the environment under its various conditions from primitive life style to modern living; to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend to contemporary issue facing global community.
- In practical paper Map Projection, the students have to enable to understand various methods of map making and types of map projection. Map projections are necessary for accurate transformation of 3-D surface.
- The basic aim of this course it to develop basic understanding of maps and selection of suitable projection for them.

Semester 5th Geography

- In their 5th semester, students have to learn about Economic geography, one of the major branches of human geography.
- The main objective of this course it to introduce the students about basic concepts of economic geography, types of economic activities and its determinants, various recourses which were used by human being through various methods and means.
- Where as in practical paper, distribution maps and diagrams, the main objective of this course is to provide the students about basic understanding and representation of map making for the distribution of various geographical elements.

Semester 6th Geography

- The theory paper „Introduction to Remote Sensing, GIS and Quantitative methods“ has been introduced in last semester of UG course.
- The aim of this course is to introduce the students to modern technology i.e. remote sensing its basic concepts and digital satellite imageries, data set and their application.
- The students have to learn different statistical methods that will be very fruitful for them. In



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practical paper the aim of this course is to acquaint the students about aerial photograph and satellite imageries, their process and methodology and also familiarize the students with importance of field work in geography, its type and related requirement and procedure.

BA PSYCHOLOGY

B. A. I

Paper: I Invitation to Psychology

- Making familiar with the foundations of Psychology.
- Acquaintance with cognitive process, states consciousness and learning.
- Acquaintance with memory processes.

Paper: II Experimental Psychology

- Making familiar with the field of general Psychology.
- Acquaintance with intelligence, motivation and emotions through experiments.
- Acquaintance with Personality.

B.A.II

Paper III Development Psychology

- Understand the development processes of Infants, Adolescence, early adulthood, Middle Adulthood and Late Adulthood.
- Understanding the social development and emotional development of child.

Paper – IV Social Psychology

- Understanding the social process.
- Understanding the social perception.
- Acquaintance with the knowledge of Interpersonal Attraction
- Understanding the Processes of Aggression.

B A III

Paper No. : V Psychopathology

- Getting acquainted with field of psychopathology.
- Introduction to various models of abnormality.
- Knowing about the nature, types and perspectives of disorders of childhood and adolescence.

Paper – VI Applied Psychology

- Understanding the applications of the psychology.



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Knowledge about the interpersonal communication process.

Understanding the stress and its effect.

Knowledge of the relationship between psychology and physical health

BA Physical Education

Semester 1

Paper: Principles and foundations of physical education

- After going through the contents of the paper the students developed the basic understanding of physical education.
- Students came to know about the historical perspective, aim objectives and scope of physical education.
- Students got the knowledge of various sports organisations which are working to promote and develop sports in India.
- The students also had the knowledge of various types of awards and incentives being conferred by the government of India to outstanding sports persons.

Semester 2

Paper: Health and yoga

- After having studied this paper the students got an understanding of concept of health education, health and their importance for the society.
- Students learn what hygiene is and how they can take care of their personal hygiene.
- The students came to know about the communicable and noncommunicable disease and how they can be prevented.
- The students learn to perform asana and got basic knowledge of yoga and benefits of asanas.

Semester 3rd

Paper: Physical activity and health

- After successful completion of this paper the students were able to understand the real value of health education and role of physical activities in promoting health.
- The students got an understanding of nutrition and balance diet and how vegetarian diet is better than non-vegetarian diet.
- The students came to know about importance of correct posture in one's life and how postural deformities can be corrected with the help of exercise and balanced diet.
- The students got basic knowledge of First aid and what they should do in case of accidents like snake bite, fracture, heat stroke, drowning, burns etc.
- How exercise can be beneficial in preventing lifestyle disease like obesity and diabetes.

Semester IV

Paper: Physical Fitness and Yoga

- After completion of this course the students were able to explain the need, importance, objectives and relationship of physical education with general education.
- The students were able to explain physical fitness and how warming up and cooling down affects the performance.
- The students got the knowledge of Kriyas and how shuddhi kriyas clean internal systems of



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human organism.

- The students got knowledge of some sports promoting agencies in India like AICS, IOC and YWCA.
- Students were able to explain the educational values of camping.



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Semester 5

Paper: Socio- Psychological Foundations of Physical Education

- The students were able to explain basic laws of learning and how these laws can be utilised for better and effective learning
- The students got the knowledge of motivation, adjustment and individual differences and role of these psychological concepts in effective learning and overall development of personality.
- The students got an understanding of how sports are a socializing agency and how sports are associated with economy and how spectators and crowd behaviour can influence the sports performance of athletes.
- The students were in a better position to explain methods of conditioning and why they should not indulge in doping.

Semester 6th

Paper: organisation and management of physical education

- The students were able to do the marking of Athletic track and came to know how various types of tracks can be maintained properly.
- They were able to organise athletic meet and conduct tournaments.
- The students got the knowledge of sports injuries and how sports injuries can be prevented and role of physical education teacher in rehabilitation.
- The students came to know about sports management and qualities and qualifications required for a good physical education teacher.
- The students were able to understand the significance of professional preparation and how an impressive curriculum can be designed in the field of physical education.

ENVIRONMENTAL STUDIES (B.A, B.COM, B.SC 1)

- Understanding environmental concerns by the students at the under graduate level.
- Understanding the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles.
- Getting information about climate change, global warming, acid rain, greenhouse effect , ozone layer depletion.
- Cultivating attitudes to safeguard the environment built particularly with field experience.
- Control of environmental pollutions like air , water , soil , noise and e-pollutions etc.
- Realization of the impact of human actions on the immediate environment and the linkage with the larger issues.
- Conservation and management of natural resources like air , water , mineral , forest and biodiversity etc.
- Motivating public for sustainable development i.e. economic development without degrading the environment.
- Getting information about environment protection acts and laws .
- Acquire the skills for identifying and solving environmental problems like deforestation, water crises etc.



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B.COM COURSE OUTCOMES

B.Com (Sem-01)

Subject: Financial accounting I

- To record the basic journal entries.
- Memorize how to calculate depreciation by applying various methods.
- Maintain the financial statements of a business entity.
- Rectify errors in accounts.

Subject: Business Mathematics I

- To apply basic terms of integration in solving practical problems field of as of business.
- To explain basic methods of business calculus, types and methods of interest account and their basic applications in practice.
- To solve problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit.
- To discuss effects of various types and methods of interest account.
- Connect acquired knowledge and skills with practical problems in economic practice.

Subject: Business Economics

- Understand how households (demand) and businesses (supply) interact in various market structures to determine price and quantity of a good produced.
- Understand the links between household behavior and the economic models of demand.
- Represent demand, in graphical form, including the downward slope of the demand curve and what shifts the demand curve.
- Understand the links between production costs and the economic models of supply.
- Apply the concept of opportunity cost
- Analyze operations of markets under varying competitive conditions

Subject: Business Management

- Use business terms and concepts when communicating.



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- Explain the financial concepts used in making business decision.
- Use effective communication skills to promote respect and relationship.
- Utilize information by applying a variety of business and industry software and hardware to major business function.
- Demonstrate a basic understanding of business management.

Subject: Business Communication Skills

- To make effective and impressive communication.
- To make communication in ethical manner.
- Capable to make persuasive digital communication.
- Capable to make abstract & summaries of proposals.
- Better presentation and communication using proper body language.

Subject: Basics of Computer-I

- Understand the concept of input and output devices of Computers and how it works.
- Understand the concepts, structure, types and design of operating Systems.
- Understand the concept of Data Communication, its Modes, its Forms and Data Communication Channels.
- Understand evolution of internet, its application and its basic services.
- Recognize when to use each of the Microsoft Office programs to create professional and academic documents.
- Create and design a word document for general office use.
- Students will have a working knowledge of paragraph formatting, macro and mail- merge in MS-Word.

B.Com (Sem-02)

Subject: Financial Accounting-II

- Student can able to make necessary journal entries in the books of record under hire purchase method.
- Able to maintain royalty and joint venture accounts.
- Easily examine the dissolution of partnership.
- Easily can prepare the journal entries of amalgamations and sale of partnership firms.



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Subject: Business Mathematics-II

- Define basic terms in the areas of business calculus and financial mathematics.
- Explain basic methods of business calculus, types and methods of interest account and their basic applications in practice.
- Solve problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit.
- Discern effects of various types and methods of interest account.
- Connect acquired knowledge and skills with practical problems in economic practice.

Subject: Business Economics-II

- Apply marginal analysis to the “firm” under different market conditions;
- Understand the causes and consequences of different market structures;
- Apply economic models to examine current economic issues and evaluate policy options for addressing these issue
- Understand the meaning of marginal revenue and marginal cost and their relevance for firm profitability.

Subject: Business Management-II

- Use business terms and concepts when communicating.
- Explain the financial concepts used in making business decision.
- Use effective communication skills to promote respect and relationship.
- Utilize information by applying a variety of business and industry software and hardware to major business function.
- Demonstrate a basic understanding of business management.

Subject: Business Environment

- Define various elements internal as well as external affecting business environment.
- Explain the techniques like SWOT analysis.
- Define the terms like inflation, GDP, etc.
- Define the consequences with regard to BOP.
- Explain the economic trends and effect of Govt. policies as LPG.



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Subject: Basics of Computers-II

- Student will be able to understand the concept of input and output devices of Computers and how it works.
- Students will be able to understand the concepts, structure, types and design of operating Systems.
- Student will be able to recognize when to use each of the Microsoft Office programs to create professional and academic documents.
- Student will be introduced to create and design a spreadsheet for general office use.
- Students will have a working knowledge of basic functions and formulas in MS- Excel.

B.Com (Sem-04)

Subject: Corporate Accounting-I

- Learn about the journal entries of issue of shares and issue of debentures.
- To know about the meaning of companies and working style of companies.
- Know about the final accounts of the companies.
- Learn about the valuation method of shares and goodwill and measurement of performance of companies.
- Work with profit prior to incorporation and post incorporation profits in company's accounts.
- Learn about the concept of sources of redemption of debentures and redemption of preference shares.

Subject: Business Statistics-I

- Student will be able to apply knowledge to solve simple tasks using computer (MS Excel)
- Student will be able to independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes)
- Student will be able to interpret the meaning of the calculated statistical indicators
- Student will be able to choose a statistical method for solving practical problems
- Student will be able to explain probability theory and probability distributions in relation to general statistical analysis.
- Student will be able to Understand and appreciate the need to solve a variety of business- related problems using a systematic approach involving accepted statistical techniques.

Subject: Business regulatory framework-I

- Learn the difference between valid void and voidable contract.



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- Memorize difference between contract of guarantee and indemnity.
- Analysis the rights and duties of pawn or Pawnee under contract of bailment.
- Learn how to pursue the consumer rights under consumer protection act 1982.

Subject: Corporate Law-I

- Know about the concept of company and shares.
- Know about the company law in the India.
- Understand the use of the memorandum of association and article of association in a company, they also learn from this course.
- Use of prospectus in a company.
- Understand the relationship between company and debenture holders.

Subject: Macroeconomics

- Understand the basics of national income accounting
- Understand the causes and consequences of business cycles
- Understand the roles of fiscal and monetary policy in fighting recessions and inflation
- Understand factors that contribute to and detract from long-term economic growth
- Apply economic reasoning to understand the operation of an economy
- Apply basic international trade and finance concepts to global pricing issues, including working with exchange rates.

Subject: Human resource management

- Learn the qualities of human resource manager in an organization.
- Analysis the importance of different methods of training given to the employees in organization.
- Memorize the difference between on the job training and of the job training.
- Learn the participant of industrial relation and recruitment of good industrial relation programme.

B.Com (Sem-04)



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Subject Corporate Accounting-II

- Know about the companies all accounts.
- Get the Knowledge of banking system.
- Learn about working format of companies.
- Understand Mutual funds" investments.
- Find out how a company can dissolve.

Subject: Business Statistics-II

- Student will able to apply knowledge to solve simple tasks using computer (MS Excel)
- Student will able to independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes)
- Student will able to interpret the meaning of the calculated statistical indicators
- Student will able to choose a statistical method for solving practical problems
- Student will able to explain probability theory and probability distributions in relation to general statistical analysis.
- Student will able to Understand and appreciate the need to solve a variety of business- related problems using a systematic approach involving accepted statistical techniques.



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Subject: Business Regulatory Framework-II

- Can able to learn the conditions of partnership act.
- Critically evaluate conditions and warranties of sale of goods act.
- Aware about rights to information.
- Can able to use negotiable instrument in practical life.

Subject Corporate Law-II

- Student will able to develop in the student an understanding of the free enterprise system and the legal safeguards of the same.
- Student will able to demonstrate clearly and forcibly the generally accepted, but not always documented, proposition that law is an expression of the public will; that a law is valid in the real sense only when it is an expression of the public will.
- Student will able to develop in the student and appreciation of the significant role played by the judiciary in the protection of individual liberty and private property.
- Student will able to develop in the student habits of analytical thinking and logical reasoning as a technique for decision-making.
- Student will able to develop in the student acceptable attitudes and viewpoints with respect to business ethics and social responsibility.

Student will able to enrich and make more meaningful the study of the other social sciences.

Subject: Marketing Management

- Students can identify how consumer behaves differently.
- Able to understand how a product passes from different stages.
- Able to understand the difference between trademark and branding.
- Able to describe the customer segmentation, target marketing and positioning.
- Understand different methods of sale promotion.

Subject: Banking and Banking Law

- Demonstrate a comprehension of the principles of banking law and its relationship to banks and customers.
- Demonstrate an awareness of law and practice in a banking context.
- Engage in critical analysis of the practice of banking law from a range of perspectives.
- Organize information as it relates to the regulation of banking products and services.

B.Com (Sem-05)

Subject: Taxation Law-I

- Define the procedure of direct tax assessment.



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- Able to file IT return on individual basis.
- Able to compute total income and define tax complications and structure.
- Able to understand amendments made from time to time in Finance Act.
- Differentiate between direct and indirect tax assessment.

Subject: Cost Accounting-I

- Define the various components of total cost of a product i.e. direct & indirect cost and fixed & flexible cost.
- Determine various levels of material i.e. reorder level, minimum level, maximum level & EOQ for managing working capital.
- Use methods of time-keeping & time-booking and manage idle & overtime.
- Define the features of overhead or indirect cost of production and basis of allocation and apportionment.
- Use cost-sheet to compute unit cost of product.
- Determine basis for computing tender price of a product.

Subject: Accounting for Management

- Use business finance terms and concepts when communicating.
- Explain the financial concepts used in making accounting management decision.
- Use effective communication skills to promote respect and relationship for financial deals.
- Utilize information by applying a variety of business and industry software and hardware to major financial function.
- 5. Demonstrate a basic understanding of accounting management.

Subject: Financial market operations

- Student will able to understand the Australian banking system and describe the role of regulatory bodies in regulating how banks manage their capital.
- Student will able to describe the types of equity securities that companies can use to raise equity capital and how these securities can be listed and traded on the Australian Stock Exchange.
- Student will able to apply different company valuation techniques to determine share prices.
- Student will able to describe the characteristics of different types of debt securities and be able to price them.
- Student will able to describe different theories of how interest rates are determined and explain the relationship between the term to maturity, risk, and interest rates.



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- Student will be able to understand the mechanics and conventions of the foreign exchange market and the motivation of different participants in trading foreign currencies.

Subject: Entrepreneurship and small scale business

- Student will be able to understand the basic development of entrepreneurship as a profession.
- Student will have a basic knowledge of human resource management for small business.
- Student will be able to identify and implement systems for collecting and analyzing information to monitor the performance of a new firm
- Student will be able to understand the differences between an entrepreneurial venture and an ongoing business operation.
- Student will be able to understand the critical roles of marketing research, competitive analysis, consumer-value proposition, and market-entry strategy in the development of a business plan.
- Student will be able to describe examples of entrepreneurial business and actual practice, both successful and unsuccessful, and explain the role and significance of entrepreneurship as a career, in the firm, and in society.
- Student will be able to understand the importance and role of ethical, sustainability, innovation and global issues for strategic decision making.
- Student will evaluate different modes of entering into entrepreneurship

Subject: Secretarial Practice

- Use international trade terms and concepts when communicating.
- Explain the international trade concepts used in making decision.
- Use effective communication skills to promote respect and relationship for secretarial practice.
- Utilize information by applying a variety of business and industry software and hardware to major voting and proxy.
- Get a basic understanding of different type of meeting of board of directors.

B.Com (Sem-06)

Subject: Taxation Law-II

- Define the procedure of direct tax assessment.
- Able to file IT return on individual basis.
- Define tax complications and structure.
- Aware about IT authorities and their powers.
- Aware about appeal & revision, tax penalties, offences and prosecutions.

Subject: Cost Accounting-II

- Define the process to compute total cost of a product belong to various production processes.



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- Accumulate total cost of a contract assigned.
- Able to prepare various budgets like fixed and flexible budgets.
- Define the terms with regard to variance analysis.
- Define the terms with regard to BEP analysis.

Subject: Financial Management

- Use business finance terms and concepts when communicating.
- Explain the financial concepts used in making financial management decision.
- Use effective communication skills to promote respect and relationship for financial deals.
- Utilize information by applying a variety of business and industry software and hardware to major financial function.
- Demonstrate a basic understanding of financial management.

Subject: Auditing

- Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.
- Student will understand auditors' legal liabilities, and be able to apply case law in making a judgment whether auditors might be liable to certain parties;
- Student will understand to describe the various levels of persuasiveness of different types of audit evidence and explain the broad principles of audit sampling techniques;
- Student will understand to discuss the need for an independent or external audit and describe briefly the development of the role of the assurance provider in modern business society;
- Student will be able to describe the quality control procedures necessary to ensure that a competent assurance engagement is performed, and apply professional ethics including Code of Conduct to specific scenarios
- Student will explain the internal audit process including the professional standards applicable to the internal audit profession.

Subject: GST

- Student will be able to Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.



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- Student will able to Identify and analyze the procedural aspects under different applicable statutes related to Goods and Service taxation.
- Student will able to understand the basic principles underlying the Goods & Service Tax).
- Student will able to understand Tax liability and taxable entities. Accounting treatment (simple and trilateral transactions).
- Student will able to examine the method of tax credit. Inflows and outflows. Outflows: tax imposition, tax exemption, tax deduction.

Subject: International Trade

- Use international trade terms and concepts when communicating.
- Explain the international trade concepts used in making global decision.
- Use effective communication skills to promote respect and relationship for



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international trade.

- Utilize information by applying a variety of business and industry software and hardware to major international trade function.

B.Sc. COURSE OUTCOMES

B.Sc. 1st Semester Physics

Subject: Mechanics (Subject Code: PHY-101)

- Get the knowledge about forces helps the students in their daily life.
- The velocity and acceleration parameter give the knowledge about how the move vehicles.
- The information will teach the students about the rolling concept.

Subject: Electricity and Magnetism (Subject Code: PHY-102)

- Explain various phenomenon like Ferromagnetism, ant ferromagnetism etc.
- Understand the relation in between Electromagnetic theory.
- Explain various phenomenon's in light of Maxwell equations.

B.Sc. 2nd Semester

Subject: Properties of Matter, Kinetic Theory and Relativity (Subject code: PHY-201)

- Students will be able to identify the type of force, type of supports and the reactions on beams and plane frames.
- The students shall be familiar with the fundamental principles of the general theory of relativity.
- They shall know the meaning of basic concepts like the equivalence principles; inertial frames and time dilation establish the non-existence of the hypothesized stationary aether through the null result of Michelson-Morley experiments with interferometer.
- Explain the true nature of Newtonian mechanics and Lorentz Transformation equations. Understand the concept of constant relative motion of different bodies in different frames of references

Subject: Electromagnetic Induction & Electronic Devices (Subject Code: PHY-202)

After the completion of the course, Students will be able to:

- Students shall learn about the significance of electric components.
- Significance of various devices and how they will operate.
- It will teach the students about the circuit connection.
- About the graphical relationship of resistance, capacitor and inductor.

B.Sc. 3rd Semester

Subject: Computer Programming & Thermodynamics (Subject Code: PHY-301)

- Understand the FORTRAN programming language.
- Be capable of specifying the simplified syntax of programming languages (FORTRAN).
- Understand the concept of thermodynamics and there laws.



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- Understand the Heat Engine and there uses.
- Describe the thermodynamic function and there relations.

Subject: Optics I (Subject Code: PHY-302)

- Understand the physics behind various phenomenons in wave and optics.
- Understand various phenomenons and the cause or origin of them.
- Explain the relationship in between various optical phenomenons with the Fourier series and matrix.

B.Sc. 4th Semester

Subject: Statistical Mechanics (Subject Code: PHY 401)

- They are able to interpret different types of events.
- Students have understood the concept of phase space and its volume.
- They can easily distinguish between different types of particles and statistics and can easily distribute bosons, fermions and classical particles among energy levels.
- After studying Fermi Dirac statistics, students have learnt to deal with much electron system in real life.

Subject: Optics II (Subject Code: PHY-402)

- Understand the physics behind various optical phenomenon's.
- Understand various natural phenomenons are which is happening in their surroundings.
- 3. Explain the relationship in between various optical phenomenons. Understand the basic concept of probability and applications involving probability.

B.Sc. 5th Semester

Subject: Solid State Physics (Subject code: PHY-501)

- Demonstrate an understanding of the crystal lattice and how the main lattice types are described
- Formulate the theory of X-ray diffraction in the reciprocal lattice (k-space) formalism and apply this knowledge to generalize the formulation for matter waves
- be able to perform structure determination of simple structures
- Learn that Dulong-Petit Law is valid only at high temperature.
- Learn that lattice specific heat of solid vary T^3 at very low temperature.

Subject: Quantum mechanics (Subject Code: PHY-502)



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- Historical aspects of development or origin of quantum mechanics.
- To explain the differences between classical and quantum mechanics.
- Understand the idea of wave function and its physical significance.
- Understand the uncertainty principal and solved the various problem based on it.
- Able to Solve Schrodinger equations for simple potentials barrier, partical in infinite potential box and harmonic oscillator.

B.Sc. 6th Semester

Subject: Atomic, Molecular and Laser Physics (Subject Code: PHY-601)

- Describe theories explaining the structure of atoms and the origin of the observed spectra.
- Identify atomic effect such as Zeeman Effect and Stark effect.
- List different types of atomic spectra.
- Explain the observed dependence of atomic spectral lines on externally applied electric and magnetic fields.
- To study the different type of Laser used in various applications and comparative study of different type of laser.

Subject: Nuclear Physics (Subject Code: PHY 602)

- After taking this course, students are able to determine the charge, mass of any nucleus by using various spectrographs.
- They are able to understand the size of nucleus and all its properties.
- This course has led the students to understand interaction of various types of radiation with matter which they observe in their daily life. It's easy for them now to relate the theory to practical.
- Students now know various methods of accelerating various types of particles to perform scattering experiments.
- Students are able to understand the detecting methods and instruments for different types of charged and neutral particles.

(Chemistry)

Semester I: (Chemistry)

- Inorganic Chemistry: Students will have a firm foundation in the fundamentals and application of inorganic chemistry and can easily assess the properties of all elements.
- Organic Chemistry: Students will be informed about the structure and bonding of organic compounds, their reactions and use in daily life.
- Physical Chemistry: Learning about mathematical concepts and computer will help to carry out scientific experiments and analyse the results accurately.

Semester II: (Chemistry)



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- Inorganic Chemistry: Students will become familiar with metallic bonding, semiconductor and ability to differentiate periodic elements. Students will appreciate the central role of chemistry in our society.
- Organic Chemistry: Aromaticity and arena will help the students to explore new areas in study of chemistry and allied fields of science and technology. Various types of reactions will create interest among students.
- Physical Chemistry: Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems. Students will be able to clearly communicate the scientific work in oral, written and electronic format to both scientists and public and acts as a member of interdisciplinary problem solving team.

Semester III: (Chemistry)

- Inorganic Chemistry: Student's will become more familiar with the elements of periodic table and it will enhance their understanding of day to day uses of the elements and their compounds in daily life. Student's will also become aware of solvents used other than water.
- Organic Chemistry: This semester's syllabus will enhance their understanding of the organic chemistry via mechanistic details of the chemical reactions. They will become familiar about the uses of various chemicals like alcohols, acids and nitro compounds in day to day life.
- Physical Chemistry: Student's will become aware about the relative solubility of a reagent in two different solvents. This Semester's syllabus will help students in understanding of basics of thermodynamics.

Semester IV: (Chemistry)

- Inorganic Chemistry: Students will become aware of the methods of extraction and separation of lanthanides & actinides from their ores. Students will also become familiar with the uses of radioactive elements in medical line. It will create their interest in industries.
- Organic Chemistry: A new branch of chemistry i.e. IR spectroscopy will be introduced and students will learn how IR spectroscopy is helpful in the structure determination of unknown organic compounds. This semester's syllabus will develop scientific temperament among students and they will be motivated for research in the subject.
- Physical Chemistry: Learning of the concepts of electrochemistry will make students aware about the day to day uses of concept like electroplating etc. Further, reading of thermodynamics will make them aware about the feasibility of various processes in terms of entropy change and free energy change. Study of Carnot cycle will give them an insight about the working of refrigerator.



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Semester V: (Chemistry)

- Organic Chemistry: students will be skilled how to determine structure of molecules using NMR
- Techniques. They learn how to design synthesis of organic molecules.
- Physical Chemistry: - Students will gain an understanding of how molecular phenomena can be related to model problems and how to interpret spectra. They learn about the difference between classical and quantum mechanics and connection of quantum mechanical operator to observe values.
- Inorganic Chemistry: - Students will be informed about the properties of coordination compounds. Students will understand the bonding and molecular orbital and crystal field splitting theory. Students will be able to explain spectroscopic properties, magnetic properties and reaction mechanism of coordination compounds.

Semester VI: (Chemistry)

- Organic Chemistry: Students will understand the mechanism of organic reaction to predict the outcome of reactions and chemical and molecular process that take place in organic chemical reaction. Students will know about fundamental properties and reactivity of biological important molecules.
- Physical Chemistry:-Students will learn general feature of absorption, photo electronic spectra and their dependence on sample properties. Student will be able to identify the term symbol of molecules.
- Inorganic Chemistry: Students will be informed how health, disease, and modern medicine are related to biological chemistry. Students will be skilled in key concepts of inorganic and organometallic chemistry related to synthesis reaction chemistry and structure and bonding. Students will learn how to maintain high standard of professional and scientific ethics.

B.Sc. I year (SEM 01) Computer Science

CO-I

Computer Fundamentals & MS-Office

- Students should be able to understand the basic concept of MS-Office, Be able to gain knowledge on the basic functions to be performed using a computer and to Know in detail the various area of MS word and MS Excel.

Computer Architecture

- Students should be able to differentiate different kinds of memories and to know their performance and to know various concepts in input and output organization.

B.Sc. I year (Sem. 02)

Programming in C

- Students should be able to understand the Computer fundamentals and the C programming language



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concepts and to know the use of functions to solve the given problem.

Structured Systems Analysis and Design

- Students should be able to understand the system's requirement, implementation and design. Also able to solve real world problem related to structured systems analysis and design.

B.Sc. II year (Sem. 03)

Data Communication and Networking

- Students should be able to understand different types of networks, various technologies and application of networks and also able to understand types of addresses, data communication.

Object-Oriented Design and C++

- Students should be able to Learn the object model, classes, objects and their relationship, nature of the classes and introduction to C++ and apply object-oriented programming principles in solving real-world problems.

B.Sc. IIInd year (Sem. 04)

Data Structures with C/C++

- Students should be able to understand basic use of data structures and learn different types of technologies using searching and sorting styles.

Operating Systems

- Students should be able to understand the process of designing and implementing System programs and operating system components and also identify the need and various types of Operating Systems

B.Sc. IIIrd year (Sem. 05)

Database Management System

- This curriculum helps students to acquire a combination of both Information fetching & Database Administration skills.

Introduction to Internet & Web Technologies

- Students should be able to understand current trends and technologies and also understand the uses of internet and web technologies.

B.Sc. IIIrd year (Sem. 06)

Visual Basic Programming

- Students should be able to create survey, formatting and alignment of sales letter and preparation of frame and display of multiform document.

Software Engineering

- Students should be able to understand various phases of software layers and to understand how to manage projects and project planning and organization.



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(Course outcomes Post Graduate Courses)

M.Sc. C.S. Ist year(sem. 01)

Subject: Mathematical foundation of computation

Outcome: After completion of course, students would be able to understand:

- The basic notions of discrete and continuous probability.
- The methods of statistical inference and the role that sampling distributions play in those methods.
- Correct and meaningful statistical analysis of simple to moderate complexity.

Subject: Data structure using C

Outcome: After completion of course, students would be able to understand:

- For a given algorithm student will able to analyse the algorithm to determine the time and computation complexity and justify the correctness.
- For a given search problem student will able to implement it.
- Student will able to implement graph search and traversal algorithms and determine the time and computation complexity.

Subject: Data base Management System

Outcome: After completion of course, students would be able to understand:

- For a given query write relational algebras expressions for that query and optimize the developed expressions.
- For a given specification of the requirement design the database using E-R method and normalization.
- For a given transaction processing system, determine the transaction atomicity, consistency, isolation and durability.

Subject: Fundamental of web designing

Outcome: After completion of course, students would be able to understand:

- The client side and server side scripts used in programming
- The basic concept of designing websites



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Subject: Computer Architecture and organisation

Outcome: After completion of course, students would be able to understand:

- Understanding logic gates, flip flops and counter
- Pipeline processing
- RISC and CISC architecture

M.Sc. C.S. Ist year(sem. 02)

Subject: Operating system and UNIX

Outcome: After completion of course, students would be able to understand:

- Be able to understanding basic operating system fundamentals.
- Familiarity with Linux programming concepts.

Subject: Data communication and computer network

Outcome: After completion of course, students would be able to understand:

- Familiar with basic Networking protocols.
- Understanding of various layers in OSI and TCP/IP reference models.

Subject: Data mining

Outcome: After completion of course, students would be able to understand:

- Implementing different data mining techniques on pre processed data set.
- Identifying appropriate data mining algorithms to solve real world problems.

Subject: Object oriented programming using java

Outcome: After completion of course, students would be able to understand:

- Familiar with basic concepts of oops
- Understanding concept of threading.

Subject: Artificial Intelligence

Outcome: After completion of course, students would be able to understand:

- Ability to analyze the strength and weakness of AI approaches to knowledge-intensive problem solving
- Ability to design and develop the AI application in real world scenario.

M.Sc. C.S. IInd year(sem. 03)

Subject: Python programming

Outcome: After completion of course, students would be able to understand:

- Implement functions in Python programming
- Explaining the concepts of oops in python programming

Subject: Computer graphics

Outcome: After completion of course, students would be able to understand:

- Understand the concepts used in various computer graphic devices



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- Drawing different objects and apply different types of transformation
- Explaining interactive computer graphics

Subject: Software Engineering

Outcome: After completion of course, students would be able to understand:

- Practice over the entire system life cycle.
- Management of risks in software and embedded systems.

Subject: Soft Computing

Outcome: After completion of course, students would be able to understand:

- Apply suitable soft computing techniques for various application
- Integrate various techniques for complex problems.

Subject: Internet of Things

Outcome: After completion of course, students would be able to understand:

- Apply the concepts of IOT
- Identify different technology
- Design and develop smart city in IOT

APGDCA Ist year (sem. 01)

Subject: Foundation course in IT and MS office 2000

Outcome: Students should be able to understand the basic concept of MS-Office, Be able to gain knowledge on the basic functions to be performed using a computer and to Know in detail the various area of MS word and MS Excel.

Subject: Computer Networking and multimedia

Outcome: After completion of course, students would be able to understand:

- Familiar with basic Networking protocols.
- Understanding of various layers in OSI and TCP/IP reference models.

Subject: Programming in C and Data Structure

Outcome: After completion of course, students would be able to understand:

- For a given algorithm student will able to analyse the algorithm to determine the time and computation complexity and justify the correctness.
- For a given search problem student will able to implement it.
- Student will able to implement graph search and traversal algorithms and determine the time and computation complexity.



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Subject: Computer Organization and Architecture

Outcome: After completion of course, students would be able to understand:

- Understanding logic gates, flip flops and counter
- Pipeline processing
- RISC and CISC architecture

APGDCA 2nd Year (sem. 02)

Subject: Visual C++

Outcome: Students should be able to understand the child window controls as well as advanced windows controls. Also able to deal with graphics.

Subject: Visual Basic and Oracle

Outcome: Students should be able to deal with oracle software, various controls in visual basic.

Subject: System Analysis and Design

Outcome: Students should be able to understand the system's requirement, implementation and design. Also able to solve real world problem related to structured systems analysis and design.

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