

Vaish College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani-Haryana)



Assessment Period: 2018-2023

Supporting Document: 2.6.1

Programme outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

PROGRAMME OUTCOMES(POs)/COURSE OUTCOMES(COs)

Under Graduate & Post Graduate Classes

SESSION

2018-19

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o https://design.cblu.ac.in/s 1 B.Sc Chemistry Semester: I-VI 2 B.Sc Physics	yllabi/
Semester: I-VI	yllabi/
2 B.Sc Physics https://design.colu.ac.in/s	
	yllabi/
Semester: I-VI	<u>yllabı/</u>
3 B.Sc./B.A <u>https://design.cblu.ac.in/s</u>	
Mathematics	
Semester: I-VI	11 1 • /
4 B.Sc. <u>https://design.cblu.ac.in/s</u>	<u>yllabi/</u>
Computer	
Science/Bachel	
or of Computer	
Applications	
Semester: I-VI	
5 B.Sc Botany <u>https://design.cblu.ac.in/s</u>	<u>yllabi/</u>
Semester: I-VI	
6 B.Sc Zoology <u>https://design.cblu.ac.in/s</u>	yllabi/
Semester: I-VI	
7 B.A Psychology <u>https://design.cblu.ac.in/s</u>	<u>yllabi/</u>
Semester: I-VI	
8 B.A History <u>https://design.cblu.ac.in/s</u>	yllabi/
Semester: I-VI	
9 B.A Political - <u>https://design.cblu.ac.in/s</u>	yllabi/
Science	
Semester: I-VI	
10 B.A Sanskrit https://design.cblu.ac.in/s	yllabi/
Semester: I-VI	
11 B.A English https://design.cblu.ac.in/s	yllabi/
Semester: I-VI	
12 B.A Economics <u>https://drive.google.com/file/d/1sMpGNiaTwdc</u>	TtiAq6srrgkfgIuoy62qc/view
Semester: I-VI	
13 B.A Hindi <u>https://design.cblu.ac.in/s</u>	yllabi/
Semester: I-VI	
14 B.Com. <u>https://design.cblu.ac.in/s</u>	yllabi/
CA/ASM/Pass	
Course	
Semester: I-VI	
15 B.B.A <u>https://drive.google.com/file/d/1xqtINbbOcUtE</u>	KlOD3UbO7fexKAAVqTmc
Semester: I-VI	-
16 M.A Hindi https://drive.google.com/file/d/1Ek	CoktcXope7Hv-
Semester: I-IV xhJFY9C79WRpTiTFy/	/view
17 M.Sc. https://drive.google.com/fi	
Mathematics nBIGrVpzIq6bcC07DdaJ6N_Y	
Semester: I-IV	
18 M.Com. https://drive.google.com/file/d/1DssU33j9eGpF8	8hQZDFBR4hvsMg7BbfSJ/v

PRINCIPAL, Vaish College, BHIWANI

	Semester: I-IV	iew
19	M.Sc. Computer Science	https://drive.google.com/file/d/1rAb2anIVm91uuE3whrQ8MnKfV4RwmXm <u>h/view</u>

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VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course

Outcomes(COs):

Course: Bachelor of Science		
Subject: Chemistry		
Semester: I-VI		
Web Link	https://design.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during	
	course of study	
Communication	Ability to communicate effectively on general and scientific topics with the	
	scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and	Capable to learn and work effectively as an individual , and as a member or	
Team Work	leader in diverse teams, multidisciplinary settings	
Investigation of	Ability of critical thinking, analytical reasoning and research based knowledge	
Problems	including design of experiments, analysis and interpretation of data to provide	
	conclusions	
Modern Tool	Ability to use and learn techniques, skills and modern tools for scientific	
usage	practices	
Science and	Ability to apply reasoning to assess the different issues related to society and	
Society	the consequent responsibilities relevant to the professional scientific practices	
Life-Long	Aptitude to apply knowledge and skills that are necessary for participating in	
Learning	learning activities throughout life	
Environment and	Ability to design and develop modern systems which are environmentally	
Sustainability	sensitive and to understand the importance of sustainable development	
Ethics	Apply ethical principles and professional responsibilities in scientific practices	
Project	Ability to demonstrate knowledge and understanding of the scientific principles	
Management	and apply these to manage projects	

Programme Specific Outcomes(POs)

- Acquire good knowledge about the fundamentals and applications of chemical and scientific theories.
- All branches of Science and Technology are related to Chemistry.
- Easily assess the properties of all elements discovered.
- Will become familiar with the different branches of chemistry like analytical, physical,

organic, inorganic, environmental and polymer.

- Will help in understanding the causes of environmental pollution and can open up new methods to control environmental pollution.
- Will develop analytical skills and problem-solving skills requiring application of chemical principles.
- Have the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.

- States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.
- To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.
- > Know about Spin quantum numbers and magnetic quantum numbers and their significance.
- ▶ Have knowledge about Electronic configuration, Effective nuclear charge and slater's rule.
- To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases
- To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules
- To study the Physical properties of liquids like surface tension, viscosity and their measurements
- Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.
- Get information about the types of structural and stereoisomers, optical isomerism, and different nomenclature like D/L, RScis/trans, E/Z etc. of various organic compounds.
- > To gain knowledge about Preparation of standard solutions used in the lab.



Course: Bachelor of Science	
	Subject: Physics
	Semester: I-VI
Web Link https://de	sign.cblu.ac.in/syllabi/
Knowledge	Programme Outcomes(POs) Capable of demonstrating comprehensive disciplinary knowledge gained
Kilowiedze	during course of study
Communication	
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
	the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team	Capable to learn and work effectively as an individual, and as a member
Work	or leader in diverse teams, multidisciplinary settings
Investigation of	Ability of critical thinking, analytical reasoning and research based
Problems	knowledge including design of experiments, analysis and interpretation of
	data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific
	practices
Science and Society	Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific
	practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating
	in learning activities throughout life
Environment and	Ability to design and develop modern systems which are environmentally
Sustainability	sensitive and to understand the importance of sustainable development
Ethics	Apply ethical principles and professional responsibilities in scientific
	practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific
	principles and apply these to manage projects
	Programme Specific Outcomes(POs)
• Acquire an in-dep	oth understanding and knowledge of the basic concepts of physics and be
able to appreciate how diverse phenomena observed in nature follow from a small set of	
fundamental laws through logical reasoning.	

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- Be capable of understanding the core physical laws to understand the basic concepts, latest progress and applications of certain sub fields such as nuclear physics, spectroscopy of atoms & molecules, solid state physics, computational physics & electronics.
- Gain hands-on skills for carrying out basic experiments as well as experiments related to different fields of Physics and attain abilities of critical thinking, problem mapping & solving using fundamental principles of Physics, systematic analysis & interpretation of results.
- Have a new perspective to look at everything from 'Scientific' point of view that enabling them to pursue higher studies at postgraduate & research level
- Have awareness of the impact of Physics in social, economical and environmental issues.

- Learn the concept of conservation of energy, momentum, angular momentum and apply them to understand the basic problems in physics.
- Understand and explain the Hamilton's variational principle, derive Lagrange's equation of motion from Hamilton's principle and be able to apply these principles to derive the Lagrangian and Hamiltonian for various simple mechanical systems such as Linear Harmonic oscillator, Simple pendulum, Atwood's machine.
- Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.
- Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to Apply Gauss's law of electrostatics to solve a variety of problems.
- > Understand the complex electrical networks analysis using different network theorems.
- > Hands on experience with the uses of multimeter.
- Understand the basic concepts of thermodynamics, the first and the second law of thermodynamics, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, the concept of entropy and the associated theorems, calculations of entropy of reversible & irreversible process, T-S diagram and Nernst heat law (third law of thermodynamics).
- Understand the need and application of Quantum Statistics: Bose-Einstein & Fermi-Dirac statistics and be able to articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- Learn and understand the different law's and theory of specific heat of solids and their significance.

Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.

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С	Course: Bachelor of Science/ Bachelor of Arts	
Subject: Mathematics		
Semester: I-VI		
Web Linkhttps://d	esign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study	
Communication	Ability to communicate effectively on general and scientifictopics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as amember or leader in diverse teams, in multidisciplinary settings.	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related tosociety and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life	
Environment and Sustainability	Ability to design and developmodern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities inscientific practices	
Project Management	Ability to demonstrate knowledge and understanding of thescientific principles and apply these to manage projects	
	Programme Specific Outcomes(POs)	

- Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts /theories/methods from such areas of Mathematics.
- Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research inMathematics.
- Communicate mathematics effectively and precisely by written, computational and graphical means.
- Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyse, evaluate and solve problems of Mathematics and/or the mathematical problems having

applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

- Understand the basic concepts of ordinary differential equations and to learn various techniques of finding exact solutions of certain solvable first order differential equations. and.
- Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients.
- Understand total differential equations and basic concepts of partial differential equations. To learn methods and techniques for solving linear PDEs of first order.
- Apply theory of PDEs to determine integral surfaces through a given curve and to find orthogonal surfaces. To understand compatible systems and Charpit method, Jacobi method methods for solving PDEs. To learn techniques of solving second order PDEs.
- Practical problems of checking continuity and differentiability, finding maxima and minima of functions of several variables, evaluating double and triple integrals.
- > Develop skills of solving ODEs and PDEs.
- Hands-on experience to find partial derivatives, total derivative and to plot graphs of functions by using built in functions of MAXIMA software.
- Understand basic concepts of real number system and set theory. Preliminary results on neighbourhood of a point, interior and limit points, open sets, closed sets etc.
- Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems.
- Understand infinite series and its basic properties. Attain skills to determine convergence of a series of real numbers by applying various tests.

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	Course: Bachelor of Science	
Subject: Computer Science/Bachelor of Computer Applications		
	Semester: I-VI	
Web Link <u>https://de</u>	esign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained duringcourse of study	
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large Capability of applying knowledge to solve scientific and other problems	
Problem Solving	Capability of apprying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader indiverse teams, in multidisciplinary settings'	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related to society and theconsequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learningactivities throughout the life	
Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities in scientific practices	
Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects	
	Programme Specific Outcomes(POs)	

- Students will be able to acquire the basic understanding of the principles and working of the
- hardware and software aspects of computer systems.
- Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
- Papers such as C++, JAVA, Python, Web designing give an effective and efficient real time solution in various domains.

- Learn the concepts of algebraic methods and find solutions of polynomial equation.
- > Apply numerical methods to obtain approximate solutions to mathematical problems.
- Fit curves & find correlations.
- Solve statistical problems probability distributions.

- Understand and characterize various types of computer networks along with an overview of the standardOSI and TCP/IP reference models that illustrates the network architecture;
- Have a comprehensive understanding of data communication and basic terminology along with itshardware components.
- Conceptualize the various design issues related to data link layer.
- Get familiar with routing and security issues related to computer networks and the solutions forhandling security related problems in networks
- Understand Linux architecture;
- Ability to use various Linux commands that are used to manipulate system operations.

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Course: Bachelor of Science		
Subject: Botany		
	Semester: I-VI	
Web Link <u>https://d</u>	design.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	To develop skills in graduate students to be able to acquire theoretical and	
	practical knowledge in fundamentals of biology in respective disciplines	
	of plants, animals, microbes and environment.	
Communication	To inculcate ability to critically evaluate problems and apply lateral	
	thinking and analytical skills for professional development.	
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.	
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.	
Investigation of Problems	To prepare youth for career in teaching, industry, government organizations and self reliant entrepreneurship.	
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.	
Science and Society	To provide learning experience in students that instills deep interest in biological science for the benefit of society.	
5	Programme Specific Outcomes(POs)	

• The students will be able to identify the various plants and compare the diagnostic characteristics of lower and higher groups of plants. This comparative approach will help the students to explain the evolution and degree of genetic diversity in plants.

- The students will be able to explain the various biological processes in plants and how they are sustained and regulated at the cellular and molecular levels. Students will also be able to understand the ecology, development, and behavior of different forms of life.
- The students will be able to describe and demonstrate the different experimental techniques and methods in various fields of plant sciences.
- The students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses. Students will also learn team workmanship in order to serve the institutions, industry, and society efficiently.
- The students will possess minimum standards of communication skills expected from a Botany graduate in the country. They will also become acritical thinker and acquire problem-solving capabilities.
- This programme will help the students in finding career opportunities in higher education in the field of plant sciences and other entrepreneurship programmes.

- Understand the general characters, economic importance and life-cycles of various groups of general microbes, algae and fungi.
- Learners will also be able to explain their impact on environment, human welfare androle in industries.

- Understanding the evolutionary significance of these organisms, in terms of phylogenetic implications on thallophyta.
- Understand the general characters, economic importance and life-cycles of various groups of Bryophytes and Pteridophytes.
- Explain their role in environment, human welfare and industrial applications.
- > Understanding the evolutionary significance of these plants.
- > Explain the concept of ecology and the influence of different environmental factors: climatic,
- > Physiographic and edaphic factors on plant life system.
- Comprehend the concept of phytogeographic zonation of India, biodiversity and its conservation.
- > Discuss the essentials of plant taxonomy and taxonomic hierarchy.

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Course: Bachelor of Science	
Subject: Zoology	
Semester: I-VI	
Web Link <u>https://</u>	/design.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	To develop skills in graduate students to be able to acquire theoretical and
	practical knowledge in fundamentals of biology in respective disciplines
	of plants, animals, microbes and environment.
Communication	To inculcate ability to critically evaluate problems and apply lateral
	thinking and analytical skills for professional development.
Problem Solving	To create awareness on ethical issues, good laboratory practices and
	biosafety.
Individual and	To develop ability in youth for understanding basic scientific learning and
Team Work	effective communication skills.
Investigation of	To prepare youth for career in teaching, industry, government
Problems	organizations and self reliant entrepreneurship.
Modern Tool usage	To make students aware of natural resources and environment and its
	sustainable utilization.
Science and	To provide learning experience in students that instills deep interest in
Society	biological science for the benefit of society.
	Programme Specific Outcomes(POs)
	ain knowledge to develop acquaintance of animal species around them and
	eir life cycles/biology and their interaction with the environment.
	will be also be apprised about likeness between the physiological processes at organismic levels.
	0
• Youth will be capable of using knowledge of subject and analytical methods in identifying and solving various complex situations of living forms and environment taking into consideration ethics and responsibilities.	
• Teaching of th	is subject will also develop ability in youth to have understanding of basic
Zoology with effective communication ability.	
	camme will develop youth who is aware of natural resources and their zation
sustainable utilization.This programme will develop personnel who can be capable of doing Masters in the subject	
and can develop career as teacher, in industry or as entrepreneur in the realms of the subject.	
Course Outcomes(COs)	
> Student will be	e able to describe unique characters and recognize life functions of phylum
Protozoa, Porife	era, Coelenterate and Helminthes
 Will be capable Coelenterate an 	e to identify the diversity and ecological role of phylum Protozoa, Porifera, d Helminthes.
➤ Student will be	able to describe unique characters and recognize life functions of Phylum

- Student will be able to describe unique characters and recognize life functions of Phylum Annelida up to Hemichordata.
- > Will be capable to identify the diversity and ecological role of Phylum Annelida up to

Hemichordata.

- Students will be capable of identifying the characters and classification of invertebrates species.
- Students will be able to realize and explain ecological and economic importance of different invertebrate species
- Through this core course the students will be capable of identifying different protochordate and will be capable of Imparting conceptual knowledge of protochordates, their adaptations and associations in relation to their environment.
- ➤ Will be able to understand the basic concepts of evolutionary relationship among protochordates and fishes.
- Students will be able to understand evolutionary lines of vertebrate class including amphibians, reptiles, birds, and mammals.
- Students will be able to identify (based on morphological characters) and understand adaptations in vertebrate class including amphibians, reptiles, birds, and mammals.

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	Course: Bachelor of Arts
	Subject: Psychology
	Semester: I-VI
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1	Programme Outcomes(POs)
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;
2.	Apply critical and analytical skills and methods to the identification and resolution of
۷.	problems within complex changing social contexts.
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.
	Communicate effectively and show ability to read, write, listen to and speak in a choser language/s with fluency.
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.
	Programme Specific Outcomes(POs)
•	Students will be able to acquire and explore understanding of different theoretical concepts for study of human behavior
•	Students will be able to acquire understanding of main psychological processes, domains o human development and theoretical understanding of various mental disorders.
•	Students will be able to handle psychological tools and demonstrate ethical application o skills in Psychological testing, Counselling and other helping areas.
•	Students will be able to have empirical understanding of different psychological phenomena for promotion of health and well -being.
	Course Outcomes(COs)
\triangleright	Acquaint with various measuring instruments.
\triangleright	Conduct tests related to their theory paper.
\triangleright	Acquaint with the main symptoms and sources of stress
\triangleright	Learn different ways of coping with stress.
	Develop appreciation for decision making in life
	Develop skills for decision Making in various domains of daily life.
\triangleright	Inculcate knowledge regarding various principles of Social Psychology.
\succ	Get exposure regarding strategies of dealing with Social issues.
\triangleright	Get awareness regarding different domains of Adolescent development.
\triangleright	Develop insight regarding different issues and coping strategies.

	Course: Bachelor of Arts		
	Subject: History		
	Semester: I-VI		
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	Programme Outcomes(POs)		
1.	There are different scopes in different areas like sericulture department as demonstrator, care		
2	taker of the farm, trainer for others, etc. Archeologist: Archeological Survey of India with private Firms related to archeology.		
	Historian: With so much debate over the authenticity of historical books, there is ever increasing demand for historians.		
4.	Public Service: for history graduates, the option of public service like UPSC, HPSC, Banking, Police Department, Army, etc. are always opened.		
5.	Teacher: After BA in history one can always find employment as a history/social science teacher.		
	Social Worker/Subject Expert: Nowadays a lot of publishing houses seek subject matter experts for the publication of school textbooks or supplementary reading materials.		
7.	Travel and Tourism Expert: With an extensive knowledge of history and historical		
	monuments, history graduates can work as a travel expert for tourism spot of historical		
	importance.		
	Programme Specific Outcomes(POs)		
•	To introduce the students to the major element of politics and administration in Ancient India. It intends to present and overview of changes in historical context.		
•	A few introductory lectures on the meaning and scope of history, expansion of Harappan civilization, Vedic polity, Mauryan polity, Post-Mauryan State, expansion of Gupta Empire, rise of Rajput power.		
•			
	Course Outcomes(COs)		
•	List the sources and evidence for reconstructing the history of Ancient India.		
•	Discuss the main features of Harappan and Saraswati Civilization.		
•	Analysis Vedic polity and state, rise of Magdha Empire.		
•	Examine the Mauryan polity under Chandra Gupta Maurya and Ashoka.		
•	Discuss the Achievements of Kushanas and Satvahanas.		
•	Examine the expansion of Gupta Empire under Samudragupta and Chandragupta- II.		
•	Describe the achievements of Harshvardhana, Chalukaya and Kushana.		
•	Explain the rise of Rajputs and Invasions of Mahmood Ghaznavi and Muhammad Ghori.		

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Course: Bachelor of Arts		
Subject: Political-Science		
Semester: I-VI		
Web Link https://design.cblu.ac.in/syllabi/		
Programme Outcomes(POs)		
1. Demonstrate a detailed knowledge and understanding of selected fields of study in core		
disciplines in the humanities, social sciences and languages;		
2. Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.		
3. Demonstrate a general understanding of the concepts and principles of selected areas of stud	Зy	
outside core disciplines of the humanities, social sciences and languages;	1	
4. Apply an independent approach to knowledge that uses rigorous methods of inquiry as appropriate theories;	nd	
5. Articulate the relationship between diverse forms of knowledge and the social, historical at	nd	
cultural contexts that produced them;		
6. Communicate effectively and show ability to read, write, listen to and speak in a chose	en	
language/s with fluency;		
7. Act as informed and critically discerning participants within the community of scholars, citizens and in the work force;	as	
8. Work with independence, self-reflection and creativity to meet goals and challenges in t	he	
workplace and personal life.		
Programme Specific Outcomes(POs)		
• Honing of critical faculties of students for the examination of political phenomena.		
• The students shall be able to develop an understanding of political events, institutions a	nd	
processes with the ability to suggest remedies for the challenges therein.		
• The students shall be able to develop an enhanced sensitivity to social and political issues as to become active members of the citizenry.	50	
• The students shall be able to demonstrate the conceptual and theoretical understanding	of	
politics for the analysis of political behaviour.	-	
Course Outcomes(COs)		
Understand the meaning, nature and significance of Political Theory.		
Develop a deeper understanding of concepts related to Political Theory.		
Critically analyse various ideologies like Marxism, Liberalism, Feminism, Ecologism.		
Comprehend the importance of debates like Protective discrimination and Citizenship		
Understand the philosophy of Indian Constitution.		
Comprehend the functioning of Legislature, Executive & Judiciary.		
Develop a deeper understanding of Centre – State relations.		
Analyse the role of Caste, Religion, Region in Indian Politics.		
Understand the nature, scope, development of international relations.		
Comprehend the major approaches of international relations like idealism, realism, liberalis and Marxism.	m	
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	Course: Bachelor of Arts		
	Subject: Sanskrit		
	Semester: I-VI		
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>		
	Programme Outcomes(POs)		
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages.		
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.		
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.		
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.		
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.		
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.		
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Enhance communication skills-Listening, Speaking, Reading, Writing.		
•	Students will be able to write Devnagari scripts which provide them paleographical knowledge to read out the script of modern languages like Hindi and Marathi.		
•	Increase in depth knowledge of the Core Areas of the subject.		
•	Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.		
•	• Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda Philisophy, Grammar, Kavya, Smitisastra etc.		
•	To make them eligible for higher education.		
•	• Develop research aptitude and independent thinking		
•	After becoming graduate students can apply in the field of UPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educational institutions.		
	Course Outcomes(COs)		
	They should general introduction of Indian Petrology and definitions and examples of various artharlankara. The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.		
	The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.		
\succ	They will be able to know the importance, propagation across the world of this language.		
\blacktriangleright	Students would know about the Vedic mantras, their application, Vedic grammar, socio- cultural life.		

➢ Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.

Rejorch PRINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts		
	Subject: English		
Semester: I-VI			
Web Li			
	Programme Outcomes(POs)		
	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;		
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.		
3.	3. Demonstrate a general understanding of the concepts and principles of selected areas of stud outside core disciplines of the humanities, social sciences and languages;		
4.	 Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories; 		
5.	 Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them; 		
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;		
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the		
	workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Create social awareness with regard to society and culture.		
•	Communicate in English language with proper knowledge of the language.		
•	Evaluate teaching learning process through various teaching aids.		
•	Respond to the fecundity of imagination and verisimilitude of life which constitute the cognitive and rational response to society.		
	Course Outcomes(COs)		
\succ	Understand the basics of grammar.		
\succ	Understand the difference of Received Pronunciation (RP) and Indian English.		
\succ	Grasp and recognize the phonetic symbols.		
\triangleright	Comprehend poetry and its different forms.		
\triangleright	Use tenses through different modules.		
\triangleright	Will be able to differentiate between poetry and prose.		
\triangleright	Perusal of short stories and essays will enrich their knowledge of tradition and culture.		
	Components of grammar like Preposition, Article, Subject-verb agreement will provide close understanding of grammatical parameters		
\triangleright	Able to transcribe two/ three syllabled words.		
\triangleright	They will learn the basics of grammar and composition.		

Rajanda PRINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts	
	Subject: Economics	
	Semester: I-VI	
Web Li		
	Programme Outcomes(POs)	
•	To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.	
• To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them		
•	To create awareness on ethical issues,good business practices,and ecology-economics interface	
•	To development ability in youth for understanding basic economic rationality and effective communication skills	
•	To prepare youth for career in teaching, industry, governmentor ganisations and self- entrepreneurship	
•	To make students aware of natural resoures, sustainable use and environment	
•	To provide learning experience in students that instills deep interest in economic sciencefor the benefit of society.	
	Programme Specific Outcomes(POs)	
•	Demonstrate the knowledge and understanding of economic science i.e vital processes o economy, consumer and producer behavior at micro level and macro-level.	
•	Critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts and tradeoffs and welfare implications o economic measures to improve the quality of life in person as well as of community.	
•	Demonstrate an understanding of the principles, methods of economic analysis in static and dynamic terms, analysis of economic data.	
•	Concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation.	
	Course Outcomes(COs)	
	Have understanding about the market, market structure, perfect competition and firm's equilibrium under it in short and long run.	
\succ	Have insight about monopoly, nature of monopoly, firm's equilibrium and price discrimination.	
	Have knowledge about nature of imperfect markets viz monopolistic competition, Oligopoly, firms strategies.	
	Have understanding about the distribution and microeco theories of distribution, traditional and modern approach, determination of interest rate and wages, different theories related to interest and wages.	
	Have insight about macroeconomics, nature & scope, methodology; national income and circular flow of income in economy.	
	Have understanding of macroeconomic behavior in terms of classical theory of employment, Say' law, Keynes' theory of equilibrium level of income and employment, a comparison.	
۶	Have knowledge about consumption bevaiour at macroeconomic level, Keynes' psychological law o consumption, hypotheses about long run income-consumption relationship.	
\triangleright	Have understanding about capital and investment, decision to invest at macroeconomic level	

,determinants of induced investment.

Have understanding about income generation process through Investment, multiplier effect and acceleration effect of income ,combined action of multiplier and acceleration effect.

> REINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts		
	Subject: Hindi		
	Semester: I-VI		
Web Link https://design.cblu.ac.in/syllabi/ Programmer (POr) / Programmer Stranging Orthogone (POr) / Commer (POr)			
Programme Outcomes(POs)/ Programme Specific Outcomes(POs)/ Course Outcomes(COs)			
1	ट्यवहारिक व ट्यावसायिक जीवन में भाषा का विशेषकर हिंदी भाषा का सही प्रयोग कर		
	सकेगा। हिंदी भाषा के विकास के माध्यम से भाषा के सैद्धांतिक पहलुओं तथा उसके परिवर्तन		
	की दिशाओं का बोध होगा।		
2	समकालीन साहित्य के विविध गद्य व पद्य रूपों के माध्यम से अपने युग का बोध होगा।		
3	साहित्य की विभिन्न विधाओं में रचनात्मक लेखन व संप्रेषण की क्षमता विकसित होगी।		
4	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक समझ विकसित होगी।		
5	साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।		
6	व्यक्तित्व विकास व जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता,		
	जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।		

Rajanda PRINCIPAL. Vaish College, BHIWANI

Course: Bachelor of Commerce			
Subject: CA/ASM/Pass Course			
Semester: I-VI			
Web L			
	Programme Outcomes(POs)		
1.	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,well trained professionals to meet the requirements.		
	After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.		
	Capability of the students to make decisions at personal & professional level will increase after completion of this course.		
	Students can independently start up their own Business.		
	Students can get thorough knowledge of finance and commerce. knowledge of different specializations in Accounting, costing, banking and finance with the		
6.	practical exposure helps the students to stand in organization.		
	Programme Specific Outcomes(POs)		
•	The students can get the knowledge, skills and attitudes during the end of the B.com degree		
	course.		
•	By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government		
•	employments and so on.,		
•	Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC. As well as other coerces.		
•	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.		
	Course Outcomes(COs)		
4	Illustrate the understanding of theoretical framework of accounting and be able to prepare financial statements of business organizations with additional items.		
\triangleright	Prepare the financial statements for non-profit organization.		
\triangleright	Analyse and apply Accounting Standards according to requirements.		
\triangleright	Apply the knowledge and skills of accounting to prepare joint ventures.		
	Exhibit the knowledge of the conceptual framework of business, commerce and management and analyse the approaches concerning management thought.		
\succ	Apply the understanding of concepts of planning and organizing functions of management.		
\succ	Assimilate and use the concepts of delegation, decentralization and staffing in organizations.		
	Comprehend the concept and applications of leadership styles, and controlling practices in organizations.		

- Exhibit proficiency in using different matrix methods in solving real life business and economic problems.
- Apply the understanding of the various type of interest and annuity in solving business related problems.

PRINCIPAL, Vaisfi College, BHIWANI

Course: Bachelor of Business Administration				
Web Link https:	Semester: I-VI			
web Link <u>https:</u>	/drive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc/view			
0 0 1 11 1 1	Programme Outcomes(POs)			
Soft skills and working				
skills	all of their dealings			
Leadership	To develop abilities to both lead and respect the views positions and			
	beliefs of others and to plan and manage effectively.			
Innovativeness and	To explore issues and problem that needs solutions with entrepreneurial			
Entrepreneurship	orientation			
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life			
Adaptability and	Ready to understand and adapt the changing environment			
Sociability				
Research and Analytic	To explore, analyses and provide solutions on emerging issues concerning			
abilities	various fields including public policy.			
Practical exposure and	Exposure to actual working environment leading to employability			
Employability				
Environmental	In every action, dealing, service, and manifestation			
Consciousness				
	Programme Specific Outcomes(POs)			
Manifest exect	itive knowledge to handle varied business situations & tasks effectively to			
solve business	problems.			
 Identify & play 	effectively executive and supervisory roles in organizations.			
Understand & apply ethical principles & make value based decisions as socially response.				
citizens.				
Communicate	& work in teams towards organizational goals.			
	Course Outcomes(COs)			
Become aware	of entrepreneurship opportunities available in the society for the entrepreneur.			
Develop a busi	ness plan and carry out feasibility study.			
 Understand imp 	portance of innovation and creativity in entrepreneurial ventures.			

- > Understand governmental framework for entrepreneurial development.
- > Comprehend the role of SIDBI, MSME, SHGs in entrepreneurial development.
- Apply techniques of effective goal setting, follow basic business etiquettes in corporate setting and enhance their self-esteem and confidence.
- Apply effective time management skills and enhance their reading, writing, speaking and listening skills.
- Apply techniques of self-motivation and motivation of others and adapt to changes in a better manner.



- > Enhance their EQ and develop creative thinking.
- > Enhance their personality for focused behaviour.



Course: Master of Arts				
Subject: Hindi				
Semester: I-IV				
Web Link <u>https://d</u>	rive.google.com/file/d/1EkCoktcXope7Hv-xhJFY9C79WRpTiTFy/view			
Programme Outcomes(POs)				
Depth and Breadth of	A systematic understanding of knowledge within the discipline and in			
Knowledge	related discipline/s, and a critical awareness of current problems and/or			
	new insights informed by the forefront of their academic discipline.			
Research and scholarship	a) A working comprehension of how established techniques of research			
	and inquiry are used to create and interpret knowledge in the discipline.			
	b) A treatment of complex issues and judgments based on established			
	principles and techniques.			
Level of application of	Competence in applying an existing body of knowledge in the critical			
knowledge	analysis of a new question or of a specific problem or issue.			
Awareness of limits of	Cognizance of the complexity of knowledge and of the potential			
knowledge	contributions of other interpretations, methods, and disciplines			
Professional	Acquiring and showing qualities and transferable skills necessary for			
capacity/autonomy	employment: exercise of initiative, personal responsibility, intellectual			
	independence, ethical behavior and academic integrity.			
Level of Communication	Ability to communicate effectively in presenting ideas orally and in			
Skills	writing (oral communication; written communication).			
Programme Specific Outcomes(POs)				
1				

- भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
- साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक, संवेदनशील दृष्टि व व्यक्तित्व का विकास।
- 3. हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित होगी। विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
- 4. साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
- जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक जान।
- 6. भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अन्तर्निहित एकता के तत्त्वों का परिचय व पहचान होगी। देश व समाज की एकता-अंखडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्त्वों की पहचान।

- > इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
- > हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
- मध्यकाल के विभिन्न संप्रदायों की दार्शनिक पृष्ठभूमि का ज्ञान होगा।
- > भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
- > आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी।
- > आध्निक हिंदी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय।
- > आधुनिक हिंदी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध।
- > आधुनिक हिंदी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध।

Lajonh PRINCIPAL Vaish College, BHIWANI

	Course: Master of Science				
Subject: Mathematics Semester: I-IV					
Programme Outcomes(POs)					
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study				
Research Aptitude	Capability to ask relevant/appropriate questions for identifying,				
	formulating and analyzing the research problems and to draw conclusion from the analysis				
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large				
Problem Solving	Capability of applying knowledge to solve scientific and other problems				
Individual and Team	Capable to learn and work effectively as an individual, and as a member				
Work	or leader in diverse teams, in multidisciplinary settings.				
Investigation of	Ability of critical thinking, analytical reasoning and research based				
Problems	knowledge including design of experiments, analysis and interpretation of				
	data to provide conclusions				
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices				
Science and Society	Ability to apply reasoning to assess the different issues related to society				
	and the consequent responsibilities relevant to the professional scientific practices				
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating				
	in learning activities throughout life				
Ethics	Capability to identify and apply ethical issues related to one's work, avoid				
	unethical behaviour such as fabrication of data, committing plagiarism				
	and unbiased truthful actions in all aspects of work				
Project Management	Ability to demonstrate knowledge and understanding of the scientific				
, U	principles and apply these to manage projects				
	Programme Specific Outcomes(POs)				

• Have deep understanding and knowledge in the core areas of Mathematics and demonstrate understanding and application of the concepts/theories/principles/ methods/ techniques in different areas of pure and applied Mathematics.

- Have capability to read and understand mathematical texts, demonstrate and communicate mathematical knowledge effectively and unambiguously through oral and/or written expressions and attain skills of computing/programming/using software tools/formulating models.
- Attain abilities of critical thinking, logical reasoning, investigating problems, analysis, problem solving, application of mathematical methods/techniques, disciplinary knowledge so as to develop skills to solve mathematical problems having applications in other disciplines and/or in the real world.

• Have strong foundation in basic and applied aspects of Mathematics so as to venture into research in different areas of mathematical sciences, jobs in scientific and various industrial sectors and/or teaching career in Mathematics.

- Understand concepts of normal subgroup, quotient group, isomorphism, automorphism, conjugacy, G-sets, normal series, composition series, solvable group, nilpotent group and refinement theorem.
- ➤ Learn about cyclic decomposition, alternating group An , simplicity of An for n≥5, Sylow's theorem and its applications.
- Understand concepts of modules, submodules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
- Learn about similar linear transformation, triangular form, nilpotent transformation, primary decomposition theorem, Jordan form, rational canonical form and elementary divisors.
- Understand the concepts of limit, continuity, differentiation and integration for functions defined over a complex plane as well as for the elementary functions.
- Solve the complex integrals of various kinds through the applications of relevant theorems, formulae and power series expansions.
- Analyse the complex functions with singularities for zeroes and residues at poles and apply the results to solve the improper integrals.
- Solve complex improper integrals through the indentation, transformation/mapping of integration paths so as to avoid singularities and branch points/cuts.
- Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
- Learn about system of linear differential equations of first order and its preliminary concepts, homogeneous and non-homogeneous linear systems, existence and uniqueness theory, fundamental matrix, theory of adjoint systems, linear systems with constant coefficients and with periodic coefficients. Attain the skill to obtain fundamental matrix of such a given linear system to demonstrate problem solving.

PRINCIPAL. Vaish College, BHIWANI

	Course: Master of Commerce			
Semester: I-IV				
Web Link https://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/view				
	Programme Outcomes(POs)			
Soft Skills and Workin				
Skills	all of their dealings			
Leadership	To develop abilities to both lead and respect the views, positions and			
T .1 1	beliefs of others and to plan and manage effectively.			
Innovativeness and	To explore issues and problems that needs solutions with entrepreneurial			
Entrepreneurship	orientation.			
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life.			
Adaptability and	Ready to understand and adapt the changing environment.			
Sociability				
Research and Analytic				
abilities	various fields including public policy.			
Practical exposure and	Exposure to actual working environment leading to employability.			
Employability				
Environmental	In every action, dealing, service and manifestation.			
Consciousness				
	Programme Specific Outcomes(POs)			
 To equip the students with the ability to analyse business environment, identify business opportunities and understand the operation of commercial activities. To develop the analytical abilities, managerial skills and capabilities for business decision making. To nurture the research aptitude and use the same for solving business problems in paradigm of business ethics and social responsibility. The inculcate the entrepreneurial capabilities and enhance employability. 				
	Course Outcomes(COs)			
➤ Know the basic	c concept of GST.			
➢ Understand the	provisions of GST Act regarding levy and collection of GST.			
\blacktriangleright Apply the prov				
\succ Understand the	e Central Excise Laws and Custom Laws.			
To develop an	understanding of the conceptual framework of the Management Accounting.			
To provide the making.	e knowledge in the Management Accounting Techniques in business decision			
To provide un latest developr	derstanding of the Tasks, Functions and Skills of strategic management and nents.			
\blacktriangleright To aware the s	tudents about principles and functions of strategic management.			
To develop knowledge about Business Finance and the background of Accounting and Management				



> To make students aware about the challenges and opportunities of Financial Management

kajarch principal, Vaish College, BHIWANI

	Course: Master of Science
	Subject: Computer Science
	Semester: I-IV
Web L	
	Programme Outcomes(POs)
1.	Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study.
2.	Research Aptitude Capability to ask relevant/appropriate questions for identifying, formulating and analyzing the research problems and to draw conclusion from the analysis.
3.	Communication Ability to communicate effectively on general and scientific topics with the scientific community and with society at large.
4.	Problem Solving Capability of applying knowledge to solve scientific and other problems
5.	Individual and Team Work Capable to learn and work effectively as an individual, and as a
	member or leader in diverse teams, in multidisciplinary settings.
6.	Investigation of Problems Ability of critical thinking, analytical reasoning and research based
	knowledge including design of experiments, analysis and interpretation of data to provide
	conclusions.
7.	Modern Tool usage Ability to use and learn techniques, skills and modern tools for scientific practices.
8.	Science and Society Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific practices.
	Programme Specific Outcomes(POs)
•	Provide exposure to the hardware and software environment of computer systems along with a comprehensive strengthening of computational expertise in programming languages and open source platforms.
•	Enhance competency in designing and modeling software based applications with enrichment of proficiency in software design skills.
•	Strengthen technical skills and professional expertise in adopting contemporary trends and technological developments for the application of innovative approaches and propositions to real-world problem scenario.
•	Inspire pursuance of skillful expertise for careers in Commercial/ Government Sectors, Academics/ Consultancy/ Research and Development for technological innovations, and collateral fields related to Computer Science and Information Technology.
	Course Outcomes(COs)
\triangleright	Review the fundamental aspects of database along with EER model.
	Get the practical exposure to SQL and PL/SQL to implement database management system in an organization.
\succ	Learn normalization and concurrency control techniques.
\succ	Acquire knowledge of different kind of emerging databases in real life scenario.
\triangleright	Understand the basic concepts and commands of Linux;
\triangleright	Understand the file management and process manipulation in Linux.
	Rejords

- Understand the C environment under Linux and do the system administration and communication in Linux.
- Develop shell programs in Linux.
- > Understand the basic concepts of sets, function and relations.
- > Understand logics and counting principles.

Rejorda PRINCIPAL, Vaish College, BHIWANI

PROGRAMME OUTCOMES(POs)/COURSE OUTCOMES(COs)

Under Graduate & Post Graduate Classes

SESSION

2019-20

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S.N	Class	Web Link
0		
1	B.Sc Chemistry	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
2	B.Sc Physics	https://design.cblu.ac.in/syllabi/
-	Semester: I-VI	
3	B.Sc./B.A	https://design.cblu.ac.in/syllabi/
	Mathematics	
	Semester: I-VI	
4	B.Sc.	https://design.cblu.ac.in/syllabi/
	Computer	
	Science/Bachel	
	or of Computer	
	Applications	
	Semester: I-VI	
5	B.Sc Botany	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
6	B.Sc Zoology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
7	B.A Psychology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
8	B.A History	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
9	B.A Political-	https://design.cblu.ac.in/syllabi/
	Science	
	Semester: I-VI	
10	B.A Sanskrit	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
11	B.A English	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
12	B.A Economics	https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view
	Semester: I-VI	
13	B.A Hindi	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
14	B.Com.	https://design.cblu.ac.in/syllabi/
	CA/ASM/Pass	
	Course	
	Semester: I-VI	
15	B.B.A	https://drive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc
	Semester: I-VI	<u>/view</u>
16	M.A Hindi	https://drive.google.com/file/d/1EkCoktcXope7Hv-
	Semester: I-IV	xhJFY9C79WRpTiTFy/view
17	M.Sc.	https://drive.google.com/file/d/1Z-
	Mathematics	nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view
	Semester: I-IV	
18	M.Com.	https://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/v

	Semester: I-IV	iew
19	M.Sc. Computer Science	https://drive.google.com/file/d/1rAb2anIVm91uuE3whrQ8MnKfV4RwmXm <u>h/view</u>

PRINCIPAL. Vaish College, BHIWANI

VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course

Outcomes(COs):

Course: Bachelor of Science		
Subject: Chemistry		
Semester: I-VI		
Web Link	https://design.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during	
	course of study	
Communication	Ability to communicate effectively on general and scientific topics with the	
	scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and	Capable to learn and work effectively as an individual , and as a member or	
Team Work	leader in diverse teams, multidisciplinary settings	
Investigation of	Ability of critical thinking, analytical reasoning and research based knowledge	
Problems	including design of experiments, analysis and interpretation of data to provide	
	conclusions	
Modern Tool	Ability to use and learn techniques, skills and modern tools for scientific	
usage	practices	
Science and	Ability to apply reasoning to assess the different issues related to society and	
Society	the consequent responsibilities relevant to the professional scientific practices	
Life-Long	Aptitude to apply knowledge and skills that are necessary for participating in	
Learning	learning activities throughout life	
Environment and	Ability to design and develop modern systems which are environmentally	
Sustainability	sensitive and to understand the importance of sustainable development	
Ethics	Apply ethical principles and professional responsibilities in scientific practices	
Project	Ability to demonstrate knowledge and understanding of the scientific principles	
Management	and apply these to manage projects	

Programme Specific Outcomes(POs)

- Acquire good knowledge about the fundamentals and applications of chemical and scientific theories.
- All branches of Science and Technology are related to Chemistry.
- Easily assess the properties of all elements discovered.
- Will become familiar with the different branches of chemistry like analytical, physical,

organic, inorganic, environmental and polymer.

- Will help in understanding the causes of environmental pollution and can open up new methods to control environmental pollution.
- Will develop analytical skills and problem-solving skills requiring application of chemical principles.
- Have the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.

- States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.
- To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.
- > Know about Spin quantum numbers and magnetic quantum numbers and their significance.
- ▶ Have knowledge about Electronic configuration, Effective nuclear charge and slater's rule.
- To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases
- To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules
- To study the Physical properties of liquids like surface tension, viscosity and their measurements
- Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.
- Get information about the types of structural and stereoisomers, optical isomerism, and different nomenclature like D/L, RScis/trans, E/Z etc. of various organic compounds.
- > To gain knowledge about Preparation of standard solutions used in the lab.

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Course: Bachelor of Science		
	Subject: Physics	
Semester: I-VI		
Web Link https://de	sign.cblu.ac.in/syllabi/	
Knowledge	Programme Outcomes(POs) Capable of demonstrating comprehensive disciplinary knowledge gained	
Kliowledge		
~	during course of study	
Communication	Ability to communicate effectively on general and scientific topics with	
	the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team	Capable to learn and work effectively as an individual, and as a member	
Work	or leader in diverse teams, multidisciplinary settings	
Investigation of	Ability of critical thinking, analytical reasoning and research based	
Problems	knowledge including design of experiments, analysis and interpretation of	
	data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific	
	practices	
Science and Society	Ability to apply reasoning to assess the different issues related to society	
	and the consequent responsibilities relevant to the professional scientific	
	practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating	
	in learning activities throughout life	
Environment and	Ability to design and develop modern systems which are environmentally	
Sustainability	sensitive and to understand the importance of sustainable development	
Ethics	Apply ethical principles and professional responsibilities in scientific	
	practices	
Project Management	Ability to demonstrate knowledge and understanding of the scientific	
	principles and apply these to manage projects	
	Programme Specific Outcomes(POs)	
• Acquire an in-dep	oth understanding and knowledge of the basic concepts of physics and be	
able to appreciate	e how diverse phenomena observed in nature follow from a small set of	
fundamental laws	fundamental laws through logical reasoning.	

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- Be capable of understanding the core physical laws to understand the basic concepts, latest progress and applications of certain sub fields such as nuclear physics, spectroscopy of atoms & molecules, solid state physics, computational physics & electronics.
- Gain hands-on skills for carrying out basic experiments as well as experiments related to different fields of Physics and attain abilities of critical thinking, problem mapping & solving using fundamental principles of Physics, systematic analysis & interpretation of results.
- Have a new perspective to look at everything from 'Scientific' point of view that enabling them to pursue higher studies at postgraduate & research level
- Have awareness of the impact of Physics in social, economical and environmental issues.

- Learn the concept of conservation of energy, momentum, angular momentum and apply them to understand the basic problems in physics.
- Understand and explain the Hamilton's variational principle, derive Lagrange's equation of motion from Hamilton's principle and be able to apply these principles to derive the Lagrangian and Hamiltonian for various simple mechanical systems such as Linear Harmonic oscillator, Simple pendulum, Atwood's machine.
- Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.
- Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to Apply Gauss's law of electrostatics to solve a variety of problems.
- > Understand the complex electrical networks analysis using different network theorems.
- > Hands on experience with the uses of multimeter.
- Understand the basic concepts of thermodynamics, the first and the second law of thermodynamics, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, the concept of entropy and the associated theorems, calculations of entropy of reversible & irreversible process, T-S diagram and Nernst heat law (third law of thermodynamics).
- Understand the need and application of Quantum Statistics: Bose-Einstein & Fermi-Dirac statistics and be able to articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- Learn and understand the different law's and theory of specific heat of solids and their significance.

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Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.

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Course: Bachelor of Science/ Bachelor of Arts		
Subject: Mathematics		
	Semester: I-VI	
Web Link <u>https://des</u>	sign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study	
Communication	Ability to communicate effectively on general and scientifictopics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as amember or leader in diverse teams, in multidisciplinary settings.	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related tosociety and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life	
Environment and Sustainability	Ability to design and developmodern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities inscientific practices	
Project	Ability to demonstrate knowledge and understanding of thescientific	
Management principles and apply these to manage projects		
Programme Specific Outcomes(POs)		

Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts /theories/methods from such areas of Mathematics.

Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research inMathematics.

Communicate mathematics effectively and precisely by written, computational and graphical means.

Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyse, evaluate and solve problems of Mathematics and/or the mathematical problems having

applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

- Understand the basic concepts of ordinary differential equations and to learn various techniques of finding exact solutions of certain solvable first order differential equations. and.
- Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients.
- Understand total differential equations and basic concepts of partial differential equations. To learn methods and techniques for solving linear PDEs of first order.
- Apply theory of PDEs to determine integral surfaces through a given curve and to find orthogonal surfaces. To understand compatible systems and Charpit method, Jacobi method methods for solving PDEs. To learn techniques of solving second order PDEs.
- Practical problems of checking continuity and differentiability, finding maxima and minima of functions of several variables, evaluating double and triple integrals.
- > Develop skills of solving ODEs and PDEs.
- Hands-on experience to find partial derivatives, total derivative and to plot graphs of functions by using built in functions of MAXIMA software.
- Understand basic concepts of real number system and set theory. Preliminary results on neighbourhood of a point, interior and limit points, open sets, closed sets etc.
- Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems.
- Understand infinite series and its basic properties. Attain skills to determine convergence of a series of real numbers by applying various tests.

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	Course: Bachelor of Science		
Subject: Computer Science/Bachelor of Computer Applications			
	Semester: I-VI		
Web Link <u>https://de</u>	esign.cblu.ac.in/syllabi/		
	Programme Outcomes(POs)		
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained duringcourse of study		
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large Capability of applying knowledge to solve scientific and other problems		
Problem Solving	Capability of apprying knowledge to solve scientific and other problems		
Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader indiverse teams, in multidisciplinary settings'		
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions		
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices		
Science and Society	Ability to apply reasoning to assess the different issues related to society and theconsequent responsibilities relevant to the professional scientific practices		
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learningactivities throughout the life		
Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.		
Ethics	Apply ethical principles and professional responsibilities in scientific practices		
Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects		
	Programme Specific Outcomes(POs)		

- Students will be able to acquire the basic understanding of the principles and working of the
- hardware and software aspects of computer systems.
- Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
- Papers such as C++, JAVA, Python, Web designing give an effective and efficient real time solution in various domains.

- > Learn the concepts of algebraic methods and find solutions of polynomial equation.
- > Apply numerical methods to obtain approximate solutions to mathematical problems.
- ➢ Fit curves & find correlations.
- > Solve statistical problems probability distributions.

- Understand and characterize various types of computer networks along with an overview of the standardOSI and TCP/IP reference models that illustrates the network architecture;
- Have a comprehensive understanding of data communication and basic terminology along with itshardware components.
- Conceptualize the various design issues related to data link layer.
- Get familiar with routing and security issues related to computer networks and the solutions forhandling security related problems in networks
- Understand Linux architecture;
- ▶ Ability to use various Linux commands that are used to manipulate system operations.

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	Course: Bachelor of Science	
Subject: Botany		
	Semester: I-VI	
Web Link <u>https://</u>	design.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	To develop skills in graduate students to be able to acquire theoretical and	
-	practical knowledge in fundamentals of biology in respective disciplines	
	of plants, animals, microbes and environment.	
Communication	To inculcate ability to critically evaluate problems and apply lateral	
	thinking and analytical skills for professional development.	
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.	
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.	
Investigation of Problems	To prepare youth for career in teaching, industry, government organizations and self reliant entrepreneurship.	
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.	
Science and	To provide learning experience in students that instills deep interest in	
Society	biological science for the benefit of society.	
	Programme Specific Outcomes(POs)	

- The students will be able to identify the various plants and compare the diagnostic characteristics of lower and higher groups of plants. This comparative approach will help the students to explain the evolution and degree of genetic diversity in plants.
- The students will be able to explain the various biological processes in plants and how they are sustained and regulated at the cellular and molecular levels. Students will also be able to understand the ecology, development, and behavior of different forms of life.
- The students will be able to describe and demonstrate the different experimental techniques and methods in various fields of plant sciences.
- The students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses. Students will also learn team workmanship in order to serve the institutions, industry, and society efficiently.
- The students will possess minimum standards of communication skills expected from a Botany graduate in the country. They will also become acritical thinker and acquire problem-solving capabilities.
- This programme will help the students in finding career opportunities in higher education in the field of plant sciences and other entrepreneurship programmes.

- Understand the general characters, economic importance and life-cycles of various groups of general microbes, algae and fungi.
- Learners will also be able to explain their impact on environment, human welfare androle in industries.

- Understanding the evolutionary significance of these organisms, in terms of phylogenetic implications on thallophyta.
- Understand the general characters, economic importance and life-cycles of various groups of Bryophytes and Pteridophytes.
- Explain their role in environment, human welfare and industrial applications.
- > Understanding the evolutionary significance of these plants.
- > Explain the concept of ecology and the influence of different environmental factors: climatic,
- > Physiographic and edaphic factors on plant life system.
- Comprehend the concept of phytogeographic zonation of India, biodiversity and its conservation.
- > Discuss the essentials of plant taxonomy and taxonomic hierarchy.

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Course: Bachelor of Science	
	Subject: Zoology
Web Link https://	Semester: I-VI design.cblu.ac.in/syllabi/
web Link <u>https://</u>	Programme Outcomes(POs)
Vnowladaa	To develop skills in graduate students to be able to acquire theoretical and
Knowledge	practical knowledge in fundamentals of biology in respective disciplines
	of plants, animals, microbes and environment.
Communication	To inculcate ability to critically evaluate problems and apply lateral
Communication	thinking and analytical skills for professional development.
Problem Solving	To create awareness on ethical issues, good laboratory practices and
110010112011118	biosafety.
Individual and	To develop ability in youth for understanding basic scientific learning and
Team Work	effective communication skills.
Investigation of	To prepare youth for career in teaching, industry, government
Problems	organizations and self reliant entrepreneurship.
Modern Tool usage	To make students aware of natural resources and environment and its
Wodern 1001 usuge	sustainable utilization.
Science and	To provide learning experience in students that instills deep interest in
Society	biological science for the benefit of society.
	Programme Specific Outcomes(POs)
• Students will g	ain knowledge to develop acquaintance of animal species around them and
	ir life cycles/biology and their interaction with the environment.
	will be also be apprised about likeness between the physiological processes at
	organismic levels.
• Youth will be capable of using knowledge of subject and analytical methods in identifiand solving various complex situations of living forms and environment taking consideration ethics and responsibilities.	
• Teaching of thi	s subject will also develop ability in youth to have understanding of basic
	fective communication ability.
1 0	amme will develop youth who is aware of natural resources and their
 sustainable utilization. This programme will develop personnel who can be capable of doing Masters in t 	
1 0	career as teacher, in industry or as entrepreneur in the realms of the subject.
	Course Outcomes(COs)
➤ Student will be	able to describe unique characters and recognize life functions of phylum
	ra, Coelenterate and Helminthes
 Will be capable Coelenterate and 	to identify the diversity and ecological role of phylum Protozoa, Porifera, Helminthes.
Student will be	able to describe unique characters and recognize life functions of Phylum

- Student will be able to describe unique characters and recognize life functions of Phylum Annelida up to Hemichordata.
- ▶ Will be capable to identify the diversity and ecological role of Phylum Annelida up to

Hemichordata.

- Students will be capable of identifying the characters and classification of invertebrates species.
- Students will be able to realize and explain ecological and economic importance of different invertebrate species
- Through this core course the students will be capable of identifying different protochordate and will be capable of Imparting conceptual knowledge of protochordates, their adaptations and associations in relation to their environment.
- ➤ Will be able to understand the basic concepts of evolutionary relationship among protochordates and fishes.
- Students will be able to understand evolutionary lines of vertebrate class including amphibians, reptiles, birds, and mammals.
- Students will be able to identify (based on morphological characters) and understand adaptations in vertebrate class including amphibians, reptiles, birds, and mammals.

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	Course: Bachelor of Arts		
Subject: Psychology			
	Semester: I-VI		
Web L	Web Link https://design.cblu.ac.in/syllabi/		
	Programme Outcomes(POs)		
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;		
2.			
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.		
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.		
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.		
б.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.		
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Students will be able to acquire and explore understanding of different theoretical concepts for study of human behavior		
•	Students will be able to acquire understanding of main psychological processes, domains of human development and theoretical understanding of various mental disorders.		
•	Students will be able to handle psychological tools and demonstrate ethical application of skills in Psychological testing, Counselling and other helping areas.		
•	Students will be able to have empirical understanding of different psychological phenomena for promotion of health and well -being.		
	Course Outcomes(COs)		
	Acquaint with various measuring instruments.		
	Conduct tests related to their theory paper.		
	Acquaint with the main symptoms and sources of stress		
	Learn different ways of coping with stress.		
>	Develop appreciation for decision making in life		
~	Develop skills for decision Making in various domains of daily life.		
	Inculcate knowledge regarding various principles of Social Psychology.		
	Get exposure regarding strategies of dealing with Social issues.		
	Get awareness regarding different domains of Adolescent development. Develop insight regarding different issues and coping strategies.		
,	2000 participation and comments of medical		

	Course: Bachelor of Arts		
Subject: History			
	Semester: I-VI		
Web L	Web Link https://design.cblu.ac.in/syllabi/		
	Programme Outcomes(POs)		
1.	There are different scopes in different areas like sericulture department as demonstrator, care		
2	taker of the farm, trainer for others, etc.		
	Archeologist: Archeological Survey of India with private Firms related to archeology. Historian: With so much debate over the authenticity of historical books, there is ever		
5.	increasing demand for historians.		
4.	Public Service: for history graduates, the option of public service like UPSC, HPSC, Banking,		
	Police Department, Army, etc. are always opened.		
5.	Teacher: After BA in history one can always find employment as a history/social science teacher.		
6.	Social Worker/Subject Expert: Nowadays a lot of publishing houses seek subject matter		
_	experts for the publication of school textbooks or supplementary reading materials.		
7.	Travel and Tourism Expert: With an extensive knowledge of history and historical		
	monuments, history graduates can work as a travel expert for tourism spot of historical		
	importance.		
	Programme Specific Outcomes(POs)		
•	To introduce the students to the major element of politics and administration in Ancient India. It intends to present and overview of changes in historical context.		
•	A few introductory lectures on the meaning and scope of history, expansion of Harappan		
	civilization, Vedic polity, Mauryan polity, Post-Mauryan State, expansion of Gupta Empire,		
	rise of Rajput power.		
•	Invasions of Mahmood Ghaznavi and Muhammad Ghori would be required to commence the paper.		
	Course Outcomes(COs)		
•	List the sources and evidence for reconstructing the history of Ancient India.		
•	Discuss the main features of Harappan and Saraswati Civilization.		
•	Analysis Vedic polity and state, rise of Magdha Empire.		
•	Examine the Mauryan polity under Chandra Gupta Maurya and Ashoka.		
•	Discuss the Achievements of Kushanas and Satvahanas.		
•	Examine the expansion of Gupta Empire under Samudragupta and Chandragupta- II.		
•	Describe the achievements of Harshvardhana, Chalukaya and Kushana.		
•	Explain the rise of Rajputs and Invasions of Mahmood Ghaznavi and Muhammad Ghori.		
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	Course: Bachelor of Arts		
Subject: Political-Science			
	Semester: I-VI		
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>		
	Programme Outcomes(POs)		
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core		
•	disciplines in the humanities, social sciences and languages;		
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.		
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study		
1	outside core disciplines of the humanities, social sciences and languages; Apply an independent approach to knowledge that uses rigorous methods of inquiry and		
ч.	appropriate theories;		
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;		
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;		
8	Work with independence, self-reflection and creativity to meet goals and challenges in the		
0.	workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Honing of critical faculties of students for the examination of political phenomena.		
•	The students shall be able to develop an understanding of political events, institutions and processes with the ability to suggest remedies for the challenges therein.		
٠	The students shall be able to develop an enhanced sensitivity to social and political issues so		
	as to become active members of the citizenry.		
•	The students shall be able to demonstrate the conceptual and theoretical understanding of politics for the analysis of political behaviour.		
	Course Outcomes(COs)		
\triangleright	Understand the meaning, nature and significance of Political Theory.		
\succ	Develop a deeper understanding of concepts related to Political Theory.		
\triangleright	Critically analyse various ideologies like Marxism, Liberalism, Feminism, Ecologism.		
\triangleright	Comprehend the importance of debates like Protective discrimination and Citizenship		
\succ	Understand the philosophy of Indian Constitution.		
	Comprehend the functioning of Legislature, Executive & Judiciary.		
	Develop a deeper understanding of Centre – State relations.		
\triangleright	Analyse the role of Caste, Religion, Region in Indian Politics.		
\triangleright	Understand the nature, scope, development of international relations.		
\triangleright	Comprehend the major approaches of international relations like idealism, realism, liberalism and Marxism.		

	Course: Bachelor of Arts			
	Subject: Sanskrit			
	Semester: I-VI			
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>			
	Programme Outcomes(POs)			
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages.			
2.	 Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts. 			
3.	 Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages. 			
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.			
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.			
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.			
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.			
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.			
-	Programme Specific Outcomes(POs)			
•	Enhance communication skills-Listening, Speaking, Reading, Writing.			
•	Students will be able to write Devnagari scripts which provide them paleographical knowledge to read out the script of modern languages like Hindi and Marathi.			
•	Increase in depth knowledge of the Core Areas of the subject.			
٠	Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.			
•	Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philisophy, Grammar, Kavya, Smitisastra etc.			
•	To make them eligible for higher education.			
•	Develop research aptitude and independent thinking			
•	After becoming graduate students can apply in the field of UPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educational institutions.			
	Course Outcomes(COs)			
A	They should general introduction of Indian Petrology and definitions and examples of various artharlankara. The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.			
\mathbf{A}	The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.			
\triangleright	They will be able to know the importance, propagation across the world of this language.			
	Students would know about the Vedic mantras, their application, Vedic grammar, socio- cultural life.			

➢ Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.

Rajanda PRINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts		
	Subject: English		
Semester: I-VI			
Web Li			
	Programme Outcomes(POs)		
	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;		
	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.		
	3. Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages;		
4.	 Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories; 		
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;		
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;		
	Work with independence, self-reflection and creativity to meet goals and challenges in the		
	workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Create social awareness with regard to society and culture.		
	Communicate in English language with proper knowledge of the language.		
	Evaluate teaching learning process through various teaching aids.		
	Respond to the fecundity of imagination and verisimilitude of life which constitute the cognitive and rational response to society.		
	Course Outcomes(COs)		
\triangleright	Understand the basics of grammar.		
\triangleright	Understand the difference of Received Pronunciation (RP) and Indian English.		
\triangleright	Grasp and recognize the phonetic symbols.		
\succ	Comprehend poetry and its different forms.		
\triangleright	Use tenses through different modules.		
\succ	Will be able to differentiate between poetry and prose.		
\triangleright	Perusal of short stories and essays will enrich their knowledge of tradition and culture.		
	Components of grammar like Preposition, Article, Subject-verb agreement will provide close understanding of grammatical parameters		
\triangleright	Able to transcribe two/ three syllabled words.		
\triangleright	They will learn the basics of grammar and composition.		

karandh PRINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts		
	Subject: Economics		
	Semester: I-VI		
Web L			
	Programme Outcomes(POs)		
•	To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.		
•	• To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them		
•	To create awareness on ethical issues, good business practices, and ecology-economics interface		
•	To development ability in youth for understanding basic economic rationality and effective communication skills		
•	To prepare youth for career in teaching, industry, governmentorganisations and self- entrepreneurship		
٠	To make students aware of natural resoures, sustainable use and environment		
•	To provide learning experience in students that instills deep interest in economic sciencefor the benefit of society.		
	Programme Specific Outcomes(POs)		
•	Demonstrate the knowledge and understanding of economic science i.e vital processes of economy, consumer and producer behavior at micro level and macro-level.		
•	Critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts and tradeoffs and welfare implications of economic measures to improve the quality of life in person as well as of community.		
•	Demonstrate an understanding of the principles, methods of economic analysis in static and dynamic terms, analysis of economic data.		
•	Concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation.		
	Course Outcomes(COs)		
	Have understanding about the market, market structure, perfect competition and firm's equilibrium under it in short and long run.		
\triangleright	Have insight about monopoly, nature of monopoly, firm's equilibrium and price discrimination.		
\blacktriangleright	Have knowledge about nature of imperfect markets viz monopolistic competition, Oligopoly, firms strategies.		
	Have understanding about the distribution and microeco theories of distribution, traditional and modern approach, determination of interest rate and wages, different theories related to interest and wages.		
\blacktriangleright	Have insight about macroeconomics, nature & scope, methodology; national income and circular flow of income in economy.		
	Have understanding of macroeconomic behavior in terms of classical theory of employment, Say's law, Keynes' theory of equilibrium level of income and employment, a comparison.		
\mathbf{b}	Have knowledge about consumption bevaiour at macroeconomic level, Keynes' psychological law or consumption, hypotheses about long run income-consumption relationship.		
\triangleright	Have understanding about capital and investment, decision to invest at macroeconomic level		

,determinants of induced investment.

Have understanding about income generation process through Investment, multiplier effect and acceleration effect of income ,combined action of multiplier and acceleration effect.

> Rajanda PRINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Arts		
	Subject: Hindi		
	Semester: I-VI		
	Link https://design.cblu.ac.in/syllabi/ Programma Outcomer(POs)/ Programma Supplific Outcomer(POs)/ Course Outcomer(COs)		
1	Programme Outcomes(POs)/ Programme Specific Outcomes(POs)/ Course Outcomes(COs)		
1	ट्यवहारिक व ट्यावसायिक जीवन में भाषा का विशेषकर हिंदी भाषा का सही प्रयोग कर		
	सकेगा। हिंदी भाषा के विकास के माध्यम से भाषा के सैद्धांतिक पहलुओं तथा उसके परिवर्तन		
	की दिशाओं का बोध होगा।		
2	समकालीन साहित्य के विविध गद्य व पद्य रूपों के माध्यम से अपने युग का बोध होगा।		
3	साहित्य की विभिन्न विधाओं में रचनात्मक लेखन व संप्रेषण की क्षमता विकसित होगी।		
4	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक समझ विकसित होगी।		
5	साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।		
6	व्यक्तित्व विकास व जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता,		
	जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।		

REINCIPAL, Vaish College, BHIWANI

	Course: Bachelor of Commerce
	Subject: CA/ASM/Pass Course
	Semester: I-VI
Web L	
	Programme Outcomes(POs)
	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,well trained professionals to meet the requirements.
	After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
	Capability of the students to make decisions at personal & professional level will increase after completion of this course.
	Students can independently start up their own Business.
	Students can get thorough knowledge of finance and commerce.
6.	knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
	Programme Specific Outcomes(POs)
•	The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
•	By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government
•	employments and so on.,
•	Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC. As well as other coerces.
•	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
	Course Outcomes(COs)
A	Illustrate the understanding of theoretical framework of accounting and be able to prepare financial statements of business organizations with additional items.
\triangleright	Prepare the financial statements for non-profit organization.
\succ	Analyse and apply Accounting Standards according to requirements.
\succ	Apply the knowledge and skills of accounting to prepare joint ventures.
	Exhibit the knowledge of the conceptual framework of business, commerce and management and analyse the approaches concerning management thought.
\succ	Apply the understanding of concepts of planning and organizing functions of management.
\succ	Assimilate and use the concepts of delegation, decentralization and staffing in organizations.
	Comprehend the concept and applications of leadership styles, and controlling practices in organizations.

Regardo PRINCIPAL, Vaish College, BHIWANI

- Exhibit proficiency in using different matrix methods in solving real life business and economic problems.
- Apply the understanding of the various type of interest and annuity in solving business related problems.

Rajonh PRINCIPAL, Vaish College, BHIWANI

	Co	ourse: Bachelor of Business Administration
	•	Semester: I-VI
Web Link	https://dr	ive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc/view
		Programme Outcomes(POs)
Soft skills and working		To comprehend, communicate and execute effectively and efficiently in
skills		all of their dealings
Leadership		To develop abilities to both lead and respect the views positions and
		beliefs of others and to plan and manage effectively.
Innovativeness	s and	To explore issues and problem that needs solutions with entrepreneurial
Entrepreneurs	hip	orientation
Ethics and Val	lues	To recognize, appreciate and follow ethical standards in all walks of life
Adaptability a	nd	Ready to understand and adapt the changing environment
Sociability		
Research and Analytical		To explore, analyses and provide solutions on emerging issues concerning
abilities		various fields including public policy.
Practical exposure and		Exposure to actual working environment leading to employability
Employability		
Environmental		In every action, dealing, service, and manifestation
Consciousness	5	
		Programme Specific Outcomes(POs)
 Manife 	est executiv	e knowledge to handle varied business situations & tasks effectively to
solve b	usiness pro	blems.
		ectively executive and supervisory roles in organizations.
		bly ethical principles & make value based decisions as socially responsible
citizen		
• Comm	unicate & w	ork in teams towards organizational goals.
		Course Outcomes(COs)
> Becom	e aware of e	entrepreneurship opportunities available in the society for the entrepreneur.
Develop a business plan and carry out feasibility study.		
> Understand importance of innovation and creativity in entrepreneurial ventures.		
Understand governmental framework for entrepreneurial development.		
	-	

- > Comprehend the role of SIDBI, MSME, SHGs in entrepreneurial development.
- Apply techniques of effective goal setting, follow basic business etiquettes in corporate setting and enhance their self-esteem and confidence.
- Apply effective time management skills and enhance their reading, writing, speaking and listening skills.
- Apply techniques of self-motivation and motivation of others and adapt to changes in a better manner.

- > Enhance their EQ and develop creative thinking.
- > Enhance their personality for focused behaviour.

kajarch PRINCIPAL, Vaish College, BHIWANI

	Course: Master of Arts	
Subject: Hindi		
Semester: I-IV		
Web Link htt	ps://drive.google.com/file/d/1EkCoktcXope7Hv-xhJFY9C79WRpTiTFy/view	
	Programme Outcomes(POs)	
Depth and Breadth	of A systematic understanding of knowledge within the discipline and in	
Knowledge	related discipline/s, and a critical awareness of current problems and/or	
	new insights informed by the forefront of their academic discipline.	
Research and schola	arship a) A working comprehension of how established techniques of research	
	and inquiry are used to create and interpret knowledge in the discipline.	
	b) A treatment of complex issues and judgments based on established	
	principles and techniques.	
Level of application	of Competence in applying an existing body of knowledge in the critical	
knowledge	analysis of a new question or of a specific problem or issue.	
Awareness of limits	s of Cognizance of the complexity of knowledge and of the potential	
knowledge	contributions of other interpretations, methods, and disciplines	
Professional	Acquiring and showing qualities and transferable skills necessary for	
capacity/autonomy	employment: exercise of initiative, personal responsibility, intellectual	
	independence, ethical behavior and academic integrity.	
Level of Communic	cation Ability to communicate effectively in presenting ideas orally and in	
Skills	writing (oral communication; written communication).	
Programme Specific Outcomes(POs)		
1 911107 3	के गणान्य गिरांनों व दिंही भाषा के व्यावटानिक प्रयोग का चान्।	

- भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
- साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक, संवेदनशील दृष्टि व व्यक्तित्व का विकास।
- 3. हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित होगी। विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
- 4. साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
- जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक जान।
- 6. भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अन्तर्निहित एकता के तत्त्वों का परिचय व पहचान होगी। देश व समाज की एकता-अंखडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्त्वों की पहचान।



- > इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
- > हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
- मध्यकाल के विभिन्न संप्रदायों की दार्शनिक पृष्ठभूमि का ज्ञान होगा।
- > भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
- > आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी।
- > आध्निक हिंदी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय।
- > आधुनिक हिंदी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध।
- > आधुनिक हिंदी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध।

	Course: Master of Science		
	Subject: Mathematics		
Semester: I-IV			
Web Link <u>https://c</u>	drive.google.com/file/d/1Z-nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view_		
	Programme Outcomes(POs)		
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study		
Research Aptitude	Capability to ask relevant/appropriate questions for identifying,		
	formulating and analyzing the research problems and to draw conclusion from the analysis		
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large		
Problem Solving	Capability of applying knowledge to solve scientific and other problems		
Individual and Team	Capable to learn and work effectively as an individual, and as a member		
Work	or leader in diverse teams, in multidisciplinary settings.		
Investigation of	Ability of critical thinking, analytical reasoning and research based		
Problems	knowledge including design of experiments, analysis and interpretation of		
	data to provide conclusions		
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices		
Science and Society	Ability to apply reasoning to assess the different issues related to society		
	and the consequent responsibilities relevant to the professional scientific practices		
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating		
	in learning activities throughout life		
Ethics	Capability to identify and apply ethical issues related to one's work, avoid		
	unethical behaviour such as fabrication of data, committing plagiarism		
	and unbiased truthful actions in all aspects of work		
Project Management	Ability to demonstrate knowledge and understanding of the scientific		
	principles and apply these to manage projects		
Programme Specific Outcomes(POs)			

• Have deep understanding and knowledge in the core areas of Mathematics and demonstrate understanding and application of the concepts/theories/principles/ methods/ techniques in different areas of pure and applied Mathematics.

- Have capability to read and understand mathematical texts, demonstrate and communicate mathematical knowledge effectively and unambiguously through oral and/or written expressions and attain skills of computing/programming/using software tools/formulating models.
- Attain abilities of critical thinking, logical reasoning, investigating problems, analysis, problem solving, application of mathematical methods/techniques, disciplinary knowledge so as to develop skills to solve mathematical problems having applications in other disciplines and/or in the real world.

• Have strong foundation in basic and applied aspects of Mathematics so as to venture into research in different areas of mathematical sciences, jobs in scientific and various industrial sectors and/or teaching career in Mathematics.

Course Outcomes(COs)

- Understand concepts of normal subgroup, quotient group, isomorphism, automorphism, conjugacy, G-sets, normal series, composition series, solvable group, nilpotent group and refinement theorem.
- ➤ Learn about cyclic decomposition, alternating group An , simplicity of An for n≥5, Sylow's theorem and its applications.
- Understand concepts of modules, submodules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
- Learn about similar linear transformation, triangular form, nilpotent transformation, primary decomposition theorem, Jordan form, rational canonical form and elementary divisors.
- Understand the concepts of limit, continuity, differentiation and integration for functions defined over a complex plane as well as for the elementary functions.
- Solve the complex integrals of various kinds through the applications of relevant theorems, formulae and power series expansions.
- Analyse the complex functions with singularities for zeroes and residues at poles and apply the results to solve the improper integrals.
- Solve complex improper integrals through the indentation, transformation/mapping of integration paths so as to avoid singularities and branch points/cuts.
- Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
- Learn about system of linear differential equations of first order and its preliminary concepts, homogeneous and non-homogeneous linear systems, existence and uniqueness theory, fundamental matrix, theory of adjoint systems, linear systems with constant coefficients and with periodic coefficients. Attain the skill to obtain fundamental matrix of such a given linear system to demonstrate problem solving.

Rajanda PRINCIPAL, Vaish College, BHIWANI

	Course: Master of Commerce	
	Semester: I-IV	
Web Linkhttps://	drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/view_	
	Programme Outcomes(POs)	
Soft Skills and Working	g To comprehend, communicate and execute effectively and efficiently in	
Skills	all of their dealings	
Leadership	To develop abilities to both lead and respect the views, positions and	
	beliefs of others and to plan and manage effectively.	
Innovativeness and	To explore issues and problems that needs solutions with entrepreneurial	
Entrepreneurship	orientation.	
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life.	
Adaptability and	Ready to understand and adapt the changing environment.	
Sociability		
Research and Analytica		
abilities	various fields including public policy.	
Practical exposure and	Exposure to actual working environment leading to employability.	
Employability		
Environmental	In every action, dealing, service and manifestation.	
Consciousness		
	Programme Specific Outcomes(POs)	
	tudents with the ability to analyse business environment, identify business	
	d understand the operation of commercial activities.	
-	analytical abilities, managerial skills and capabilities for business decision	
making.To nurture the r	esearch aptitude and use the same for solving business problems in paradigm	
	escaren aptitude and use the same for solving business problems in paradigm	
	e entrepreneurial capabilities and enhance employability.	
	Course Outcomes(COs)	
\succ Know the basic	concept of GST.	
\succ Understand the	provisions of GST Act regarding levy and collection of GST.	
Apply the provi	sions for computation of GST.	
 Understand the Central Excise Laws and Custom Laws. 		
To develop an u	nderstanding of the conceptual framework of the Management Accounting.	
To provide the making.	knowledge in the Management Accounting Techniques in business decision	
To provide und latest development	erstanding of the Tasks, Functions and Skills of strategic management and ents.	
To aware the stu	idents about principles and functions of strategic management.	
To develop knowledge about Business Finance and the background of Accounting and Management		

> To make students aware about the challenges and opportunities of Financial Management

kajamb PRINCIPAL, Vaish College, BHIWANI

	Course: Master of Science		
	Subject: Computer Science		
	Semester: I-IV		
Web Lin			
4 1	Programme Outcomes(POs)		
	Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during ourse of study.		
	Research Aptitude Capability to ask relevant/appropriate questions for identifying, ormulating and analyzing the research problems and to draw conclusion from the analysis.		
	Communication Ability to communicate effectively on general and scientific topics with the cientific community and with society at large.		
4. P	Problem Solving Capability of applying knowledge to solve scientific and other problems		
	ndividual and Team Work Capable to learn and work effectively as an individual, and as a nember or leader in diverse teams, in multidisciplinary settings.		
	nvestigation of Problems Ability of critical thinking, analytical reasoning and research based		
	nowledge including design of experiments, analysis and interpretation of data to provide		
	onclusions.		
	Addern Tool usage Ability to use and learn techniques, skills and modern tools for scientific		
p	practices.		
	science and Society Ability to apply reasoning to assess the different issues related to society		
aı	nd the consequent responsibilities relevant to the professional scientific practices.		
	Programme Specific Outcomes(POs)		
С	Provide exposure to the hardware and software environment of computer systems along with a omprehensive strengthening of computational expertise in programming languages and open ource platforms.		
• E			
te	• Strengthen technical skills and professional expertise in adopting contemporary trends and technological developments for the application of innovative approaches and propositions to real-world problem scenario.		
А	nspire pursuance of skillful expertise for careers in Commercial/ Government Sectors, Academics/ Consultancy/ Research and Development for technological innovations, and ollateral fields related to Computer Science and Information Technology.		
	Course Outcomes(COs)		
≻ R	Review the fundamental aspects of database along with EER model.		
	Set the practical exposure to SQL and PL/SQL to implement database management system in n organization.		
≻ L	earn normalization and concurrency control techniques.		
≻ A	Acquire knowledge of different kind of emerging databases in real life scenario.		
≻ U	Inderstand the basic concepts and commands of Linux;		
≻ U	Inderstand the file management and process manipulation in Linux.		
	lajan h		

- Understand the C environment under Linux and do the system administration and communication in Linux.
- Develop shell programs in Linux.
- > Understand the basic concepts of sets, function and relations.
- > Understand logics and counting principles.

Rejerch PRINCIPAL, Vaish College, BHIWANI

VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course Outcomes(COs)

(UG & PG Session 2020-2021)

PRINCIPAL 1 Jish College

S.N o	Class	Web Link
1	B.Sc Chemistry Semester: I-VI	https://design.cblu.ac.in/syllabi/
2	B.Sc Physics	https://design.cblu.ac.in/syllabi/
2	Semester: I-VI	<u>maps.//design.cond.ac.m//synabl/</u>
3	B.Sc./B.A	https://design.cblu.ac.in/syllabi/
	Mathematics	
	Semester: I-VI	
4	B.Sc.	https://design.cblu.ac.in/syllabi/
	Computer Science/Bachel	
	or of Computer	
	Applications	
	Semester: I-VI	
5	B.Sc Botany	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
6	B.Sc Zoology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
7	B.A Psychology	https://design.cblu.ac.in/syllabi/
0	Semester: I-VI	
8	B.A History Semester: I-VI	https://design.cblu.ac.in/syllabi/
9	B.A Political-	https://design.cblu.ac.in/syllabi/
	Science	<u>mups.//design.cond.ac.m//syndol/</u>
	Semester: I-VI	
10	B.A Sanskrit	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
11	B.A English	https://design.cblu.ac.in/syllabi/
10	Semester: I-VI	
12	B.A Economics	https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view
13	Semester: I-VI B.A Hindi	https://design.cblu.ac.in/syllabi/
15	Semester: I-VI	<u>nups.//design.cond.ac.in/synabl/</u>
14	B.Com.	https://design.cblu.ac.in/syllabi/
	CA/ASM/Pass	
	Course	
	Semester: I-VI	
15	B.B.A	https://drive.google.com/file/d/1xqtINbbOcUtEKlOD3UbO7fexKAAVqTmc
16	Semester: I-VI	/view
16	M.A Hindi Semester: I-IV	https://drive.google.com/file/d/1EkCoktcXope7Hv- xhJFY9C79WRpTiTFy/view
17	M.Sc.	https://drive.google.com/file/d/1Z-
1/	Mathematics	nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view
	Semester: I-IV	
18	M.Com.	https://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/v

Ś PRINCIPAL BHIWAN!

	Semester: I-IV	iew
19	M.Sc.	https://drive.google.com/file/d/1rAb2anIVm91uuE3whrQ8MnKfV4RwmXm
	Computer Science	<u>h/view</u>

V PRINCIPAL BHIWANI

VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course

Outcomes(COs):

Course: Bachelor of Science		
Subject: Chemistry		
	Semester: I-VI	
nttps://desig	n.cblu.ac.in/syllabi/	
Programme Outcomes(POs)		
Capable of	demonstrating comprehensive disciplinary knowledge gained during	
course of s	tudy	
Ability to	communicate effectively on general and scientific topics with the	
scientific c	ommunity and with society at large	
Capability	of applying knowledge to solve scientific and other problems	
Capable to	learn and work effectively as an individual, and as a member of	
eader in d	verse teams, multidisciplinary settings	
Ability of	critical thinking, analytical reasoning and research based knowledge	
ncluding of	lesign of experiments, analysis and interpretation of data to provide	
conclusion	S	
Ability to	use and learn techniques, skills and modern tools for scientific	
oractices		
Ability to	apply reasoning to assess the different issues related to society and	
he conseq	uent responsibilities relevant to the professional scientific practices	
Aptitude to	o apply knowledge and skills that are necessary for participating ir	
earning ac	tivities throughout life	
Ability to	design and develop modern systems which are environmentally	
sensitive a	nd to understand the importance of sustainable development	
	cal principles and professional responsibilities in scientific practices	
Ability to	demonstrate knowledge and understanding of the scientific principles	
and apply	hese to manage projects	
Apply ethi Ability to a and apply t	cal principles and professional responsibilities in s demonstrate knowledge and understanding of the	

Programme Specific Outcomes(POs)

- Acquire good knowledge about the fundamentals and applications of chemical and scientific theories.
- All branches of Science and Technology are related to Chemistry.
- Easily assess the properties of all elements discovered.
- Will become familiar with the different branches of chemistry like analytical, physical,



organic, inorganic, environmental and polymer.

- Will help in understanding the causes of environmental pollution and can open up new methods to control environmental pollution.
- Will develop analytical skills and problem-solving skills requiring application of chemical principles.
- Have the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.

- States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.
- To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.
- > Know about Spin quantum numbers and magnetic quantum numbers and their significance.
- > Have knowledge about Electronic configuration, Effective nuclear charge and slater's rule.
- To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases
- To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules
- To study the Physical properties of liquids like surface tension, viscosity and their measurements
- Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.
- Get information about the types of structural and stereoisomers, optical isomerism, and different nomenclature like D/L, RScis/trans, E/Z etc. of various organic compounds.
- > To gain knowledge about Preparation of standard solutions used in the lab.

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Course: Bachelor of Science	
	Subject: Physics
Wah Link https://	Semester: I-VI
Web Link <u>https://</u>	design.cblu.ac.in/syllabi/ Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained
	during course of study
Communication Ability to communicate effectively on general and scientific top	
	the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team	Capable to learn and work effectively as an individual , and as a member
Work	or leader in diverse teams, multidisciplinary settings
Investigation of	Ability of critical thinking, analytical reasoning and research based
Problems	knowledge including design of experiments, analysis and interpretation of
	data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific
	practices
Science and Society	Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific
	practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating
	in learning activities throughout life
Environment and	Ability to design and develop modern systems which are environmentally
Sustainability sensitive and to understand the importance of sustainable development	
Ethics	Apply ethical principles and professional responsibilities in scientific
	practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific
	principles and apply these to manage projects
	Programme Specific Outcomes(POs)
• Acquire an in-depth understanding and knowledge of the basic concepts of physics and be	
able to appreciate how diverse phenomena observed in nature follow from a small set of	

fundamental laws through logical reasoning.

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- Be capable of understanding the core physical laws to understand the basic concepts, latest progress and applications of certain sub fields such as nuclear physics, spectroscopy of atoms & molecules, solid state physics, computational physics & electronics.
- Gain hands-on skills for carrying out basic experiments as well as experiments related to different fields of Physics and attain abilities of critical thinking, problem mapping & solving using fundamental principles of Physics, systematic analysis & interpretation of results.
- Have a new perspective to look at everything from 'Scientific' point of view that enabling them to pursue higher studies at postgraduate & research level
- Have awareness of the impact of Physics in social, economical and environmental issues.

- Learn the concept of conservation of energy, momentum, angular momentum and apply them to understand the basic problems in physics.
- Understand and explain the Hamilton's variational principle, derive Lagrange's equation of motion from Hamilton's principle and be able to apply these principles to derive the Lagrangian and Hamiltonian for various simple mechanical systems such as Linear Harmonic oscillator, Simple pendulum, Atwood's machine.
- Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.
- Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to Apply Gauss's law of electrostatics to solve a variety of problems.
- > Understand the complex electrical networks analysis using different network theorems.
- ➤ Hands on experience with the uses of multimeter.
- Understand the basic concepts of thermodynamics, the first and the second law of thermodynamics, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, the concept of entropy and the associated theorems, calculations of entropy of reversible & irreversible process, T-S diagram and Nernst heat law (third law of thermodynamics).
- Understand the need and application of Quantum Statistics: Bose-Einstein & Fermi-Dirac statistics and be able to articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- Learn and understand the different law's and theory of specific heat of solids and their significance.

Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.

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Course: Bachelor of Science/ Bachelor of Arts		
Subject: Mathematics		
	Semester: I-VI	
Web Link <u>https://d</u>	esign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study	
Communication	Ability to communicate effectively on general and scientifictopics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as amember or leader in diverse teams, in multidisciplinary settings.	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life	
Environment and Sustainability	Ability to design and developmodern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities inscientific practices	
Project Management	Ability to demonstrate knowledge and understanding of thescientific principles and apply these to manage projects	
Programme Specific Outcomes(POs)		

Programme Specific Outcomes(POs)

Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts /theories/methods from such areas of Mathematics.

Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research in Mathematics.

Communicate mathematics effectively and precisely by written, computational and graphical means.

Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyse, evaluate and solve problems of Mathematics and/or the mathematical problems having

applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

- ➤ Understand the basic concepts of ordinary differential equations and to learn various techniques of finding exact solutions of certain solvable first order differential equations. and.
- Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients.
- Understand total differential equations and basic concepts of partial differential equations. To learn methods and techniques for solving linear PDEs of first order.
- Apply theory of PDEs to determine integral surfaces through a given curve and to find orthogonal surfaces. To understand compatible systems and Charpit method, Jacobi method methods for solving PDEs. To learn techniques of solving second order PDEs.
- Practical problems of checking continuity and differentiability, finding maxima and minima of functions of several variables, evaluating double and triple integrals.
- > Develop skills of solving ODEs and PDEs.
- Hands-on experience to find partial derivatives, total derivative and to plot graphs of functions by using built in functions of MAXIMA software.
- Understand basic concepts of real number system and set theory. Preliminary results on neighbourhood of a point, interior and limit points, open sets, closed sets etc.
- Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems.
- Understand infinite series and its basic properties. Attain skills to determine convergence of a series of real numbers by applying various tests.



Course: Bachelor of Science		
Subject: Computer Science/Bachelor of Computer Applications		
	Semester: I-VI	
Web Link <u>https://de</u>	sign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained duringcourse of study	
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader indiverse teams, in multidisciplinary settings'	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learningactivities throughout the life	
Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics Apply ethical principles and professional responsibilities in scientific practices		
Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects	
Programme Specific Outcomes(POs)		

- Students will be able to acquire the basic understanding of the principles and working of the
- hardware and software aspects of computer systems.
- Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
- Papers such as C++, JAVA, Python, Web designing give an effective and efficient real time solution in various domains.

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- > Learn the concepts of algebraic methods and find solutions of polynomial equation.
- > Apply numerical methods to obtain approximate solutions to mathematical problems.
- Fit curves & find correlations.
- Solve statistical problems probability distributions.

- Understand and characterize various types of computer networks along with an overview of the standardOSI and TCP/IP reference models that illustrates the network architecture;
- Have a comprehensive understanding of data communication and basic terminology along with itshardware components.
- Conceptualize the various design issues related to data link layer.
- Get familiar with routing and security issues related to computer networks and the solutions forhandling security related problems in networks
- Understand Linux architecture;
- > Ability to use various Linux commands that are used to manipulate system operations.

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Course: Bachelor of Science Subject: Botany Semester: I-VI				
		Web Link https://design.cblu.ac.in/syllabi/		
			Programme Outcomes(POs)	
Knowledge	To develop skills in graduate students to be able to acquire theoretical and			
-	practical knowledge in fundamentals of biology in respective disciplines			
	of plants, animals, microbes and environment.			
Communication	To inculcate ability to critically evaluate problems and apply lateral			
	thinking and analytical skills for professional development.			
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.			
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.			
Investigation of Problems	To prepare youth for career in teaching, industry, government organizations and self reliant entrepreneurship.			
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.			
Science and	To provide learning experience in students that instills deep interest in			
Society	biological science for the benefit of society.			
Programme Specific Outcomes(POs)				

- The students will be able to identify the various plants and compare the diagnostic characteristics of lower and higher groups of plants. This comparative approach will help the students to explain the evolution and degree of genetic diversity in plants.
- The students will be able to explain the various biological processes in plants and how they are sustained and regulated at the cellular and molecular levels. Students will also be able to understand the ecology, development, and behavior of different forms of life.
- The students will be able to describe and demonstrate the different experimental techniques and methods in various fields of plant sciences.
- The students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses. Students will also learn team workmanship in order to serve the institutions, industry, and society efficiently.
- The students will possess minimum standards of communication skills expected from a Botany graduate in the country. They will also become acritical thinker and acquire problem-solving capabilities.
- This programme will help the students in finding career opportunities in higher education in the field of plant sciences and other entrepreneurship programmes.

- Understand the general characters, economic importance and life-cycles of various groups of general microbes, algae and fungi.
- Learners will also be able to explain their impact on environment, human welfare androle in industries.

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- Understanding the evolutionary significance of these organisms, in terms of phylogenetic implications on thallophyta.
- Understand the general characters, economic importance and life-cycles of various groups of Bryophytes and Pteridophytes.
- > Explain their role in environment, human welfare and industrial applications.
- > Understanding the evolutionary significance of these plants.
- Explain the concept of ecology and the influence of different environmental factors: climatic,
- > Physiographic and edaphic factors on plant life system.
- Comprehend the concept of phytogeographic zonation of India, biodiversity and its conservation.
- > Discuss the essentials of plant taxonomy and taxonomic hierarchy.



	Course: Bachelor of Science Subject: Zoology	
	Semester: I-VI	
Web Link https://design.cblu.ac.in/syllabi/		
· · · ·	Programme Outcomes(POs)	
Knowledge	To develop skills in graduate students to be able to acquire theoretical and practical knowledge in fundamentals of biology in respective disciplines of plants, animals, microbes and environment.	
Communication	To inculcate ability to critically evaluate problems and apply lateral thinking and analytical skills for professional development.	
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.	
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.	
Investigation of Problems	To prepare youth for career in teaching, industry, governmen organizations and self reliant entrepreneurship.	
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.	
Science and Society	To provide learning experience in students that instills deep interest in biological science for the benefit of society.	
	Programme Specific Outcomes(POs)	
 variations in their Young students we the cellular and of Youth will be called and solving variation of the consideration eth Teaching of this Zoology with efferences and sustainable utilization. This PG programs This programme 	pable of using knowledge of subject and analytical methods in identifying ious complex situations of living forms and environment taking inter- ics and responsibilities. subject will also develop ability in youth to have understanding of basic ective communication ability. mme will develop youth who is aware of natural resources and thei	
> Student will be	able to describe unique characters and recognize life functions of phylun	
	a, Coelenterate and Helminthes	

- Will be capable to identify the diversity and ecological role of phylum Protozoa, Porifera, Coelenterate and Helminthes.
- Student will be able to describe unique characters and recognize life functions of Phylum Annelida up to Hemichordata.
- > Will be capable to identify the diversity and ecological role of Phylum Annelida up to

Hemichordata.

- Students will be capable of identifying the characters and classification of invertebrates species.
- Students will be able to realize and explain ecological and economic importance of different invertebrate species
- Through this core course the students will be capable of identifying different protochordate and will be capable of Imparting conceptual knowledge of protochordates, their adaptations and associations in relation to their environment.
- > Will be able to understand the basic concepts of evolutionary relationship among protochordates and fishes.
- Students will be able to understand evolutionary lines of vertebrate class including amphibians, reptiles, birds, and mammals.
- Students will be able to identify (based on morphological characters) and understand adaptations in vertebrate class including amphibians, reptiles, birds, and mammals.

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	Course: Bachelor of Arts	
Subject: Psychology		
Semester: I-VI		
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	Programme Outcomes(POs)	
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;	
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.	
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.	
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.	
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.	
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.	
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.	
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.	
	Programme Specific Outcomes(POs)	
•	Students will be able to acquire and explore understanding of different theoretical concepts for study of human behavior	
•		
•	Students will be able to handle psychological tools and demonstrate ethical application of skills in Psychological testing, Counselling and other helping areas.	
•	Students will be able to have empirical understanding of different psychological phenomena for promotion of health and well -being.	
	Course Outcomes(COs)	
\triangleright	Acquaint with various measuring instruments.	
\triangleright	Conduct tests related to their theory paper.	
\succ	Acquaint with the main symptoms and sources of stress	
	Learn different ways of coping with stress.	
\triangleright	Develop appreciation for decision making in life	
	Develop skills for decision Making in various domains of daily life.	
	Inculcate knowledge regarding various principles of Social Psychology.	
4	Get exposure regarding strategies of dealing with Social issues.	
	Get awareness regarding different domains of Adolescent development.	
	Develop insight regarding different issues and coping strategies.	

	Course: Bachelor of Arts
	Subject: History
	Semester: I-VI
Web L	
	Programme Outcomes(POs)
1.	There are different scopes in different areas like sericulture department as demonstrator, care taker of the farm, trainer for others, etc.
2.	Archeologist: Archeological Survey of India with private Firms related to archeology.
3.	Historian: With so much debate over the authenticity of historical books, there is ever increasing demand for historians.
4.	Public Service: for history graduates, the option of public service like UPSC, HPSC, Banking, Police Department, Army, etc. are always opened.
5.	Teacher: After BA in history one can always find employment as a history/social science teacher.
6.	Social Worker/Subject Expert: Nowadays a lot of publishing houses seek subject matter experts for the publication of school textbooks or supplementary reading materials.
7.	Travel and Tourism Expert: With an extensive knowledge of history and historical
	monuments, history graduates can work as a travel expert for tourism spot of historical
	importance.
	Programme Specific Outcomes(POs)
•	To introduce the students to the major element of politics and administration in Ancient India.
•	It intends to present and overview of changes in historical context.
•	A few introductory lectures on the meaning and scope of history, expansion of Harappan civilization, Vedic polity, Mauryan polity, Post-Mauryan State, expansion of Gupta Empire,
•	rise of Rajput power. Invasions of Mahmood Ghaznavi and Muhammad Ghori would be required to commence the paper.
	Course Outcomes(COs)
•	List the sources and evidence for reconstructing the history of Ancient India.
•	Discuss the main features of Harappan and Saraswati Civilization.
•	Analysis Vedic polity and state, rise of Magdha Empire.
•	Examine the Mauryan polity under Chandra Gupta Maurya and Ashoka.
•	Discuss the Achievements of Kushanas and Satvahanas.
•	Examine the expansion of Gupta Empire under Samudragupta and Chandragupta- II.
•	Describe the achievements of Harshvardhana, Chalukaya and Kushana.
•	Explain the rise of Rajputs and Invasions of Mahmood Ghaznavi and Muhammad Ghori.

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C	ourse: Bachelor of Arts	
	Subject: Political-Science	
Semester: I-VI		
Web Link https://design.cblu.ac.i		
	gramme Outcomes(POs)	
	ledge and understanding of selected fields of study in core	
disciplines in the humanities, s		
problems within complex chan	skills and methods to the identification and resolution of ging social contexts	
	anding of the concepts and principles of selected areas of study	
	humanities, social sciences and languages;	
	ach to knowledge that uses rigorous methods of inquiry and	
appropriate theories;	waan diwaraa forma of knowladge and the social historical and	
cultural contexts that produced	ween diverse forms of knowledge and the social, historical and them:	
-	show ability to read, write, listen to and speak in a chosen	
language/s with fluency;		
	v discerning participants within the community of scholars, as	
citizens and in the work force;	f-reflection and creativity to meet goals and challenges in the	
workplace and personal life.	-reflection and creativity to meet goals and chanenges in the	
1 1		
	nme Specific Outcomes(POs) students for the examination of political phenomena.	
-	develop an understanding of political events, institutions and	
	ggest remedies for the challenges therein.	
	levelop an enhanced sensitivity to social and political issues so	
as to become active members of	•	
	demonstrate the conceptual and theoretical understanding of	
politics for the analysis of poli	course Outcomes(COs)	
	e and significance of Political Theory.	
 Develop a deeper understandir 	g of concepts related to Political Theory.	
 Critically analyse various ideo 	logies like Marxism, Liberalism, Feminism, Ecologism.	
Comprehend the importance of	f debates like Protective discrimination and Citizenship	
Understand the philosophy of I	Indian Constitution.	
Comprehend the functioning o	f Legislature, Executive & Judiciary.	
Develop a deeper understandir	g of Centre – State relations.	
Analyse the role of Caste, Reli	gion, Region in Indian Politics.	
\succ Understand the nature, scope, ϕ	development of international relations.	
Comprehend the major approa and Marxism.	ches of international relations like idealism, realism, liberalism	
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	Course: Bachelor of Arts				
	Subject: Sanskrit				
	Semester: I-VI				
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>				
Programme Outcomes(POs)					
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages.				
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.				
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.				
4.					
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.				
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.				
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.				
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.				
	Programme Specific Outcomes(POs)				
•	Enhance communication skills-Listening, Speaking, Reading, Writing. Students will be able to write Devnagari scripts which provide them paleographical				
•	knowledge to read out the script of modern languages like Hindi and Marathi. Increase in depth knowledge of the Core Areas of the subject.				
•	Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.				
•	Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philisophy, Grammar, Kavya, Smitisastra etc.				
•	To make them eligible for higher education.				
٠	Develop research aptitude and independent thinking				
•	After becoming graduate students can apply in the field of UPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educational institutions.				
	Course Outcomes(COs)				
À	They should general introduction of Indian Petrology and definitions and examples of various artharlankara. The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.				
	The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.				
\triangleright	They will be able to know the importance, propagation across the world of this language.				
\triangleright	Students would know about the Vedic mantras, their application, Vedic grammar, socio- cultural life.				



Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.

PRINCIPAL BHIWANI

	Course: Bachelor of Arts	
	Subject: English	
Semester: I-VI		
Web Link https://design.cblu.ac.in/syllabi/		
1	Programme Outcomes(POs)	
	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;	
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.	
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages;	
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories;	
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;	
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;	
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;	
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the	
	workplace and personal life.	
	Programme Specific Outcomes(POs)	
٠	Create social awareness with regard to society and culture.	
٠	Communicate in English language with proper knowledge of the language.	
٠	Evaluate teaching learning process through various teaching aids.	
٠	Respond to the fecundity of imagination and verisimilitude of life which constitute the cognitive and rational response to society.	
	Course Outcomes(COs)	
\triangleright	Understand the basics of grammar.	
\triangleright	Understand the difference of Received Pronunciation (RP) and Indian English.	
\triangleright	Grasp and recognize the phonetic symbols.	
\succ	Comprehend poetry and its different forms.	
\triangleright	Use tenses through different modules.	
	Will be able to differentiate between poetry and prose.	
	Perusal of short stories and essays will enrich their knowledge of tradition and culture.	
\blacktriangleright	Components of grammar like Preposition, Article, Subject-verb agreement will provide close understanding of grammatical parameters	
\triangleright	Able to transcribe two/ three syllabled words.	
\triangleright	They will learn the basics of grammar and composition.	



	Course: Bachelor of Arts
	Subject: Economics
	Semester: I-VI
Web Li	nk <u>https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view</u>
	Programme Outcomes(POs)
	To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.
	To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
•	To create awareness on ethical issues, good business practices, and ecology-economics interface
•	To development ability in youth for understanding basic economic rationality and effective communication skills
•	To prepare youth for career in teaching, industry, governmentor ganisations and self-entrepreneurship
•	To make students aware of natural resoures, sustainable use and environment
•	To provide learning experience in students that instills deep interest in economic sciencefor the benefit of society.
	•
	Programme Specific Outcomes(POs)
•	Demonstrate the knowledge and understanding of economic science i.e vital processes of economy, consumer and producer behavior at micro level and macro-level.
•	Critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts and tradeoffs and welfare implications of economic measures to improve the quality of life in person as well as of community.
•	Demonstrate an understanding of the principles, methods of economic analysis in static and dynamic terms, analysis of economic data.
•	Concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation.
	Course Outcomes(COs)
	Have understanding about the market, market structure, perfect competition and firm's equilibrium under it in short and long run.
\succ	Have insight about monopoly, nature of monopoly, firm's equilibrium and price discrimination.
\succ	Have knowledge about nature of imperfect markets viz monopolistic competition, Oligopoly, firms' strategies.
	Have understanding about the distribution and microeco theories of distribution, traditional and modern approach, determination of interest rate and wages, different theories related to interest and wages.
	Have insight about macroeconomics, nature & scope, methodology; national income and circular flow of income in economy.
	Have understanding of macroeconomic behavior in terms of classical theory of employment, Say's law, Keynes' theory of equilibrium level of income and employment, a comparison.
	Have knowledge about consumption bevaiour at macroeconomic level, Keynes' psychological law of consumption, hypotheses about long run income-consumption relationship.
\succ	Have understanding about capital and investment, decision to invest at macroeconomic level

V

,determinants of induced investment.

➢ Have understanding about income generation process through Investment, multiplier effect and acceleration effect of income ,combined action of multiplier and acceleration effect.

PRINCIPAL BHIWANI

	Course: Bachelor of Arts		
	Subject: Hindi		
	Semester: I-VI		
	Web Link https://design.cblu.ac.in/syllabi/		
P	Programme Outcomes(POs)/ Programme Specific Outcomes(POs)/ Course Outcomes(COs)		
1	व्यवहारिक व व्यावसायिक जीवन में भाषा का विशेषकर हिंदी भाषा का सही प्रयोग कर सकेगा। हिंदी भाषा के विकास के माध्यम से भाषा के सैद्धांतिक पहलुओं तथा उसके परिवर्तन की दिशाओं का बोध होगा।		
2	समकालीन साहित्य के विविध गद्य व पद्य रूपों के माध्यम से अपने युग का बोध होगा।		
3	साहित्य की विभिन्न विधाओं में रचनात्मक लेखन व संप्रेषण की क्षमता विकसित होगी।		
4	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक समझ विकसित होगी।		
5	साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।		
6	व्यक्तित्व विकास व जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता,		
	जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।		

 \bigcirc PRINCIPAL BHIWAN!

	Course: Bachelor of Commerce		
	Subject: CA/ASM/Pass Course		
Subject: Chilliphili uss course Semester: I-VI Web Link https://design.cblu.ac.in/syllabi/			
1.	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,well trained professionals to meet the requirements.		
	2. After completing graduation, students can get skills regarding various aspects like Marketir Manager, Selling Manager, over all Administration abilities of the Company.		
	3. Capability of the students to make decisions at personal & professional level will increase after completion of this course.		
	Students can independently start up their own Business.		
	Students can get thorough knowledge of finance and commerce.		
6.	knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.		
	Programme Specific Outcomes(POs)		
•	The students can get the knowledge, skills and attitudes during the end of the B.com degree course.		
•	By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government		
٠	employments and so on.,		
•	Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC. As well as other coerces.		
•	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.		
	Course Outcomes(COs)		
4	Illustrate the understanding of theoretical framework of accounting and be able to prepare financial statements of business organizations with additional items.		
\succ	Prepare the financial statements for non-profit organization.		
\succ	Analyse and apply Accounting Standards according to requirements.		
\succ	Apply the knowledge and skills of accounting to prepare joint ventures.		
	Exhibit the knowledge of the conceptual framework of business, commerce and management and analyse the approaches concerning management thought.		
\triangleright	Apply the understanding of concepts of planning and organizing functions of management.		
\triangleright	Assimilate and use the concepts of delegation, decentralization and staffing in organizations.		
\triangleright	Comprehend the concept and applications of leadership styles, and controlling practices in organizations.		



- Exhibit proficiency in using different matrix methods in solving real life business and economic problems.
- > Apply the understanding of the various type of interest and annuity in solving business related problems.

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C	ourse: Bachelor of Business Administration	
	Semester: I-VI	
Web Link <u>https://dr</u>	ive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc/view	
<u> </u>	Programme Outcomes(POs)	
Soft skills and working	To comprehend, communicate and execute effectively and efficiently in	
skills	all of their dealings	
Leadership	To develop abilities to both lead and respect the views positions and	
	beliefs of others and to plan and manage effectively.	
Innovativeness and	To explore issues and problem that needs solutions with entrepreneurial	
Entrepreneurship	orientation	
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life	
Adaptability and	Ready to understand and adapt the changing environment	
Sociability		
Research and Analytical	To explore, analyses and provide solutions on emerging issues concerning	
abilities	various fields including public policy.	
Practical exposure and	Exposure to actual working environment leading to employability	
Employability		
Environmental	In every action, dealing, service, and manifestation	
Consciousness		
	Programme Specific Outcomes(POs)	
Manifest executiv	ve knowledge to handle varied business situations & tasks effectively to	
solve business pro	blems.	
 Identify & play eff 	ectively executive and supervisory roles in organizations.	
Understand & ap	ply ethical principles & make value based decisions as socially responsible	
citizens.		
Communicate & v	vork in teams towards organizational goals.	
	Course Outcomes(COs)	
Become aware of	entrepreneurship opportunities available in the society for the entrepreneur.	
Develop a busines	Develop a business plan and carry out feasibility study.	
Understand impor	tance of innovation and creativity in entrepreneurial ventures.	

- Understand importance of innovation and creativity in entrepreneurial ventures.
- > Understand governmental framework for entrepreneurial development.
- > Comprehend the role of SIDBI, MSME, SHGs in entrepreneurial development.
- Apply techniques of effective goal setting, follow basic business etiquettes in corporate setting and enhance their self-esteem and confidence.
- Apply effective time management skills and enhance their reading, writing, speaking and listening skills.
- Apply techniques of self-motivation and motivation of others and adapt to changes in a better manner.

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- > Enhance their EQ and develop creative thinking.
- > Enhance their personality for focused behaviour.



Course: Master of Arts				
Subject: Hindi				
Semester: I-IV				
Web Link <u>https://driv</u>	ve.google.com/file/d/1EkCoktcXope7Hv-xhJFY9C79WRpTiTFy/view			
Programme Outcomes(POs)				
Depth and Breadth of	A systematic understanding of knowledge within the discipline and in			
Knowledge	related discipline/s, and a critical awareness of current problems and/or			
	new insights informed by the forefront of their academic discipline.			
Research and scholarship	a) A working comprehension of how established techniques of research			
	and inquiry are used to create and interpret knowledge in the discipline.			
	b) A treatment of complex issues and judgments based on established			
	principles and techniques.			
Level of application of	Competence in applying an existing body of knowledge in the critical			
knowledge	analysis of a new question or of a specific problem or issue.			
Awareness of limits of	Cognizance of the complexity of knowledge and of the potential			
knowledge	contributions of other interpretations, methods, and disciplines			
Professional	Acquiring and showing qualities and transferable skills necessary for			
capacity/autonomy	employment: exercise of initiative, personal responsibility, intellectual			
	independence, ethical behavior and academic integrity.			
Level of Communication	Ability to communicate effectively in presenting ideas orally and in			
Skills	writing (oral communication; written communication).			
Programme Specific Outcomes(POs)				

- 1. भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
- साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक, संवेदनशील दृष्टि व व्यक्तित्व का विकास।
- 3. हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित होगी। विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
- 4. साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
- जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान।
- 6. भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अन्तर्निहित एकता के तत्त्वों का परिचय व पहचान होगी। देश व समाज की एकता-अंखडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्त्वों की पहचान।



- > इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
- > हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
- > मध्यकाल के विभिन्न संप्रदायों की दार्शनिक पृष्ठभूमि का ज्ञान होगा।
- > भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
- > आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी।
- > आधुनिक हिंदी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय।
- > आधुनिक हिंदी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध।
- > आधुनिक हिंदी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध।

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	Course: Master of Science				
Subject: Mathematics Semester: I-IV					
Programme Outcomes(POs)					
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study				
Research Aptitude	Capability to ask relevant/appropriate questions for identifying,				
	formulating and analyzing the research problems and to draw conclusion from the analysis				
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large				
Problem Solving	Capability of applying knowledge to solve scientific and other problems				
Individual and Team	Capable to learn and work effectively as an individual, and as a member				
Work	or leader in diverse teams, in multidisciplinary settings.				
Investigation of	Ability of critical thinking, analytical reasoning and research based				
Problems	knowledge including design of experiments, analysis and interpretation of				
	data to provide conclusions				
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices				
Science and Society	Ability to apply reasoning to assess the different issues related to society				
	and the consequent responsibilities relevant to the professional scientific practices				
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating				
	in learning activities throughout life				
Ethics	Capability to identify and apply ethical issues related to one's work, avoid				
	unethical behaviour such as fabrication of data, committing plagiarism				
	and unbiased truthful actions in all aspects of work				
Project Management	Ability to demonstrate knowledge and understanding of the scientific				
	principles and apply these to manage projects				
	Programme Specific Outcomes(POs)				

• Have deep understanding and knowledge in the core areas of Mathematics and demonstrate understanding and application of the concepts/theories/principles/ methods/ techniques in different areas of pure and applied Mathematics.

- Have capability to read and understand mathematical texts, demonstrate and communicate mathematical knowledge effectively and unambiguously through oral and/or written expressions and attain skills of computing/programming/using software tools/formulating models.
- Attain abilities of critical thinking, logical reasoning, investigating problems, analysis, problem solving, application of mathematical methods/techniques, disciplinary knowledge so as to develop skills to solve mathematical problems having applications in other disciplines and/or in the real world.

PRINCIPAL Corsh College BHIWAN! • Have strong foundation in basic and applied aspects of Mathematics so as to venture into research in different areas of mathematical sciences, jobs in scientific and various industrial sectors and/or teaching career in Mathematics.

- Understand concepts of normal subgroup, quotient group, isomorphism, automorphism, conjugacy, G-sets, normal series, composition series, solvable group, nilpotent group and refinement theorem.
- > Learn about cyclic decomposition, alternating group An , simplicity of An for n \geq 5, Sylow's theorem and its applications.
- Understand concepts of modules, submodules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
- Learn about similar linear transformation, triangular form, nilpotent transformation, primary decomposition theorem, Jordan form, rational canonical form and elementary divisors.
- Understand the concepts of limit, continuity, differentiation and integration for functions defined over a complex plane as well as for the elementary functions.
- Solve the complex integrals of various kinds through the applications of relevant theorems, formulae and power series expansions.
- Analyse the complex functions with singularities for zeroes and residues at poles and apply the results to solve the improper integrals.
- Solve complex improper integrals through the indentation, transformation/mapping of integration paths so as to avoid singularities and branch points/cuts.
- Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
- Learn about system of linear differential equations of first order and its preliminary concepts, homogeneous and non-homogeneous linear systems, existence and uniqueness theory, fundamental matrix, theory of adjoint systems, linear systems with constant coefficients and with periodic coefficients. Attain the skill to obtain fundamental matrix of such a given linear system to demonstrate problem solving.



	Course: Master of Commerce
	Semester: I-IV
Web Linkhttps://dr	ive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/view
Soft Skills and Working	Programme Outcomes(POs)
Soft Skills and Working Skills	To comprehend, communicate and execute effectively and efficiently in all of their dealings
Leadership	To develop abilities to both lead and respect the views, positions and
Leadership	beliefs of others and to plan and manage effectively.
Innovativeness and	To explore issues and problems that needs solutions with entrepreneurial
Entrepreneurship	orientation.
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life.
Adaptability and	Ready to understand and adapt the changing environment.
Sociability	
Research and Analytical	To explore, analyses and provide solutions on emerging issues concerning
abilities	various fields including public policy.
Practical exposure and	Exposure to actual working environment leading to employability.
Employability	
Environmental	In every action, dealing, service and manifestation.
Consciousness	
	Programme Specific Outcomes(POs)
1 1	dents with the ability to analyse business environment, identify business
	understand the operation of commercial activities.
• To develop the an making.	nalytical abilities, managerial skills and capabilities for business decision
6	earch aptitude and use the same for solving business problems in paradigm
	and social responsibility.
	entrepreneurial capabilities and enhance employability.
	Course Outcomes(COs)
	Course Outcomes(COs)
Know the basic co	ncept of GST.
\blacktriangleright Understand the pro-	ovisions of GST Act regarding levy and collection of GST.
Apply the provision	ons for computation of GST.
Understand the Ce	entral Excise Laws and Custom Laws.
To develop an und	lerstanding of the conceptual framework of the Management Accounting.
To provide the kn making.	nowledge in the Management Accounting Techniques in business decision
To provide under latest development	standing of the Tasks, Functions and Skills of strategic management and ts.
\succ To aware the stude	ents about principles and functions of strategic management.
To develop know Management	vledge about Business Finance and the background of Accounting and

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> To make students aware about the challenges and opportunities of Financial Management



2.	Programme Outcomes(POs) Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study. Research Aptitude Capability to ask relevant/appropriate questions for identifying
1. 2.	nk https://drive.google.com/file/d/1rAb2anIVm91uuE3whrQ8MnKfV4RwmXmh/view Programme Outcomes(POs) Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study. Research Aptitude Capability to ask relevant/appropriate questions for identifying
1. 2.	Programme Outcomes(POs) Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study. Research Aptitude Capability to ask relevant/appropriate questions for identifying
2.	Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study. Research Aptitude Capability to ask relevant/appropriate questions for identifying
2.	course of study. Research Aptitude Capability to ask relevant/appropriate questions for identifying
2.	Research Aptitude Capability to ask relevant/appropriate questions for identifying
3.	formulating and analyzing the research problems and to draw conclusion from the analysis.
	Communication Ability to communicate effectively on general and scientific topics with the scientific community and with society at large.
4.	Problem Solving Capability of applying knowledge to solve scientific and other problems
	Individual and Team Work Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.
	Investigation of Problems Ability of critical thinking, analytical reasoning and research based
	knowledge including design of experiments, analysis and interpretation of data to provide conclusions.
7.	Modern Tool usage Ability to use and learn techniques, skills and modern tools for scientific
	practices.
	Science and Society Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific practices.
	Programme Specific Outcomes(POs)
•	Provide exposure to the hardware and software environment of computer systems along with comprehensive strengthening of computational expertise in programming languages and ope source platforms.
•	Enhance competency in designing and modeling software based applications with enrichmen of proficiency in software design skills.
	Strengthen technical skills and professional expertise in adopting contemporary trends and technological developments for the application of innovative approaches and propositions to real-world problem scenario.
•	Inspire pursuance of skillful expertise for careers in Commercial/ Government Sectors Academics/ Consultancy/ Research and Development for technological innovations, and collateral fields related to Computer Science and Information Technology.
	Course Outcomes(COs)
\checkmark	Review the fundamental aspects of database along with EER model.
	Get the practical exposure to SQL and PL/SQL to implement database management system is an organization.
\succ	Learn normalization and concurrency control techniques.
\succ	Acquire knowledge of different kind of emerging databases in real life scenario.
\succ	Understand the basic concepts and commands of Linux;
	Understand the file management and process manipulation in Linux.

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- Understand the C environment under Linux and do the system administration and communication in Linux.
- Develop shell programs in Linux.
- > Understand the basic concepts of sets, function and relations.
- > Understand logics and counting principles.



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(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

2.6 Programme Outcomes(POs)/Programme SpecificOutcomes/Course Outcomes(COs)

(UG & PG Session 2021-2022)





S.N	Class	Web Link
0		
1	B.Sc Chemistry	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
2	B.Sc Physics	https://design.cblu.ac.in/syllabi/
-	Semester: I-VI	
3	B.Sc./B.A	https://design.cblu.ac.in/syllabi/
	Mathematics	
	Semester: I-VI	
4	B.Sc.	https://design.cblu.ac.in/syllabi/
	Computer	
	Science/Bachel	
	or of Computer	
	Applications	
	Semester: I-VI	
5	B.Sc Botany	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
6	B.Sc Zoology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
7	B.A Psychology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
8	B.A History	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
9	B.A Political-	https://design.cblu.ac.in/syllabi/
	Science	
	Semester: I-VI	
10	B.A Sanskrit	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
11	B.A English	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
12	B.A Economics	https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view
	Semester: I-VI	
13	B.A Hindi	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
14	B.Com.	https://design.cblu.ac.in/syllabi/
	CA/ASM/Pass	
	Course	
	Semester: I-VI	
15	B.B.A	https://drive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc
	Semester: I-VI	<u>/view</u>
16	M.A Hindi	https://drive.google.com/file/d/1EkCoktcXope7Hv-
	Semester: I-IV	xhJFY9C79WRpTiTFy/view
17	M.Sc.	https://drive.google.com/file/d/1Z-
	Mathematics	nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view
	Semester: I-IV	
18	M.Com.	https://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/v



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VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course

Outcomes(COs):

Course: Bachelor of Science		
Subject: Chemistry		
Semester: I-VI		
Web Link https://design.cblu.ac.in/syllabi/		
Programme Outcomes(POs)		
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during	
	course of study	
Communication	Ability to communicate effectively on general and scientific topics with the	
	scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and	Capable to learn and work effectively as an individual, and as a member or	
Team Work	leader in diverse teams, multidisciplinary settings	
Investigation of	Ability of critical thinking, analytical reasoning and research based knowledge	
Problems	including design of experiments, analysis and interpretation of data to provide	
	conclusions	
Modern Tool	Ability to use and learn techniques, skills and modern tools for scientific	
usage	practices	
Science and	Ability to apply reasoning to assess the different issues related to society and	
Society	the consequent responsibilities relevant to the professional scientific practices	
Life-Long	Aptitude to apply knowledge and skills that are necessary for participating in	
Learning	learning activities throughout life	
Environment and	Ability to design and develop modern systems which are environmentally	
Sustainability	sensitive and to understand the importance of sustainable development	
Ethics	Apply ethical principles and professional responsibilities in scientific practices	
Project	Ability to demonstrate knowledge and understanding of the scientific principles	
Management	and apply these to manage projects	

Programme Specific Outcomes(POs)

- Acquire good knowledge about the fundamentals and applications of chemical and scientific theories.
- All branches of Science and Technology are related to Chemistry.
- Easily assess the properties of all elements discovered.
- Will become familiar with the different branches of chemistry like analytical, physical,



organic, inorganic, environmental and polymer.

- Will help in understanding the causes of environmental pollution and can open up new methods to control environmental pollution.
- Will develop analytical skills and problem-solving skills requiring application of chemical principles.
- Have the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.

- States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.
- To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.
- > Know about Spin quantum numbers and magnetic quantum numbers and their significance.
- ▶ Have knowledge about Electronic configuration, Effective nuclear charge and slater's rule.
- To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases
- To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules
- To study the Physical properties of liquids like surface tension, viscosity and their measurements
- Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.
- Get information about the types of structural and stereoisomers, optical isomerism, and different nomenclature like D/L, RScis/trans, E/Z etc. of various organic compounds.
- > To gain knowledge about Preparation of standard solutions used in the lab.



Course: Bachelor of Science	
Subject: Physics	
Semester: I-VI	
Web Link <u>https://d</u>	esign.cblu.ac.in/syllabi/ Programma Outgomas(POs)
Knowledge	Programme Outcomes(POs) Capable of demonstrating comprehensive disciplinary knowledge gained
Kilowiedze	during course of study
Communication	Ability to communicate effectively on general and scientific topics with
	the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team	Capable to learn and work effectively as an individual, and as a member
Work	or leader in diverse teams, multidisciplinary settings
Investigation of	Ability of critical thinking, analytical reasoning and research based
Problems	knowledge including design of experiments, analysis and interpretation of
	data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific
	practices
Science and Society	Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific
	practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating
	in learning activities throughout life
Environment and	Ability to design and develop modern systems which are environmentally
Sustainability	sensitive and to understand the importance of sustainable development
Ethics	Apply ethical principles and professional responsibilities in scientific
	practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific
	principles and apply these to manage projects
	Programme Specific Outcomes(POs)
• Acquire an in-de	pth understanding and knowledge of the basic concepts of physics and be
able to appreciate how diverse phenomena observed in nature follow from a small set of	

fundamental laws through logical reasoning.



- Be capable of understanding the core physical laws to understand the basic concepts, latest progress and applications of certain sub fields such as nuclear physics, spectroscopy of atoms & molecules, solid state physics, computational physics & electronics.
- Gain hands-on skills for carrying out basic experiments as well as experiments related to different fields of Physics and attain abilities of critical thinking, problem mapping & solving using fundamental principles of Physics, systematic analysis & interpretation of results.
- Have a new perspective to look at everything from 'Scientific' point of view that enabling them to pursue higher studies at postgraduate & research level
- Have awareness of the impact of Physics in social, economical and environmental issues.

- Learn the concept of conservation of energy, momentum, angular momentum and apply them to understand the basic problems in physics.
- Understand and explain the Hamilton's variational principle, derive Lagrange's equation of motion from Hamilton's principle and be able to apply these principles to derive the Lagrangian and Hamiltonian for various simple mechanical systems such as Linear Harmonic oscillator, Simple pendulum, Atwood's machine.
- Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.
- Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to Apply Gauss's law of electrostatics to solve a variety of problems.
- > Understand the complex electrical networks analysis using different network theorems.
- > Hands on experience with the uses of multimeter.
- Understand the basic concepts of thermodynamics, the first and the second law of thermodynamics, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, the concept of entropy and the associated theorems, calculations of entropy of reversible & irreversible process, T-S diagram and Nernst heat law (third law of thermodynamics).
- Understand the need and application of Quantum Statistics: Bose-Einstein & Fermi-Dirac statistics and be able to articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- Learn and understand the different law's and theory of specific heat of solids and their significance.



Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.



С	Course: Bachelor of Science/ Bachelor of Arts	
Subject: Mathematics		
	Semester: I-VI	
Web Linkhttps://de	esign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study	
Communication	Ability to communicate effectively on general and scientifictopics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as amember or leader in diverse teams, in multidisciplinary settings.	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related tosociety and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life	
Environment and Sustainability	Ability to design and developmodern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities inscientific practices	
Project Management	Ability to demonstrate knowledge and understanding of thescientific principles and apply these to manage projects	
	Programme Specific Outcomes(POs)	

- Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts /theories/methods from such areas of Mathematics.
- Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research inMathematics.
- Communicate mathematics effectively and precisely by written, computational and graphical means.
- Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyse, evaluate and solve problems of Mathematics and/or the mathematical problems having

applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

- Understand the basic concepts of ordinary differential equations and to learn various techniques of finding exact solutions of certain solvable first order differential equations. and.
- Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients.
- Understand total differential equations and basic concepts of partial differential equations. To learn methods and techniques for solving linear PDEs of first order.
- Apply theory of PDEs to determine integral surfaces through a given curve and to find orthogonal surfaces. To understand compatible systems and Charpit method, Jacobi method methods for solving PDEs. To learn techniques of solving second order PDEs.
- Practical problems of checking continuity and differentiability, finding maxima and minima of functions of several variables, evaluating double and triple integrals.
- > Develop skills of solving ODEs and PDEs.
- Hands-on experience to find partial derivatives, total derivative and to plot graphs of functions by using built in functions of MAXIMA software.
- Understand basic concepts of real number system and set theory. Preliminary results on neighbourhood of a point, interior and limit points, open sets, closed sets etc.
- Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems.
- Understand infinite series and its basic properties. Attain skills to determine convergence of a series of real numbers by applying various tests.



Course: Bachelor of Science	
Subject: Computer Science/Bachelor of Computer Applications	
	Semester: I-VI
Web Link <u>https://de</u>	esign.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained duringcourse of study
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader indiverse teams, in multidisciplinary settings'
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices
Science and Society	Ability to apply reasoning to assess the different issues related to society and theconsequent responsibilities relevant to the professional scientific practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learningactivities throughout the life
Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.
Ethics	Apply ethical principles and professional responsibilities in scientific practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects
	Programme Specific Outcomes(POs)

- Students will be able to acquire the basic understanding of the principles and working of the
- hardware and software aspects of computer systems.
- Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
- Papers such as C++, JAVA, Python, Web designing give an effective and efficient real time solution in various domains.

- ▶ Learn the concepts of algebraic methods and find solutions of polynomial equation.
- > Apply numerical methods to obtain approximate solutions to mathematical problems.
- Fit curves & find correlations.
- Solve statistical problems probability distributions.



- Understand and characterize various types of computer networks along with an overview of the standardOSI and TCP/IP reference models that illustrates the network architecture;
- Have a comprehensive understanding of data communication and basic terminology along with itshardware components.
- Conceptualize the various design issues related to data link layer.
- Get familiar with routing and security issues related to computer networks and the solutions forhandling security related problems in networks
- Understand Linux architecture;
- ▶ Ability to use various Linux commands that are used to manipulate system operations.



Course: Bachelor of Science Subject: Botany Semester: I-VI			
		Web Link <u>https://c</u>	design.cblu.ac.in/syllabi/
			Programme Outcomes(POs)
Knowledge	To develop skills in graduate students to be able to acquire theoretical and		
-	practical knowledge in fundamentals of biology in respective disciplines		
	of plants, animals, microbes and environment.		
Communication	To inculcate ability to critically evaluate problems and apply lateral		
	thinking and analytical skills for professional development.		
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.		
Individual and	To develop ability in youth for understanding basic scientific learning and		
Team Work	effective communication skills.		
Investigation of	To prepare youth for career in teaching, industry, government		
Problems	organizations and self reliant entrepreneurship.		
Modern Tool usage	To make students aware of natural resources and environment and its		
C	sustainable utilization.		
Science and	To provide learning experience in students that instills deep interest in		
Society	biological science for the benefit of society.		
	Programme Specific Outcomes(POs)		

• The students will be able to identify the various plants and compare the diagnostic characteristics of lower and higher groups of plants. This comparative approach will help the students to explain the evolution and degree of genetic diversity in plants.

- The students will be able to explain the various biological processes in plants and how they are sustained and regulated at the cellular and molecular levels. Students will also be able to understand the ecology, development, and behavior of different forms of life.
- The students will be able to describe and demonstrate the different experimental techniques and methods in various fields of plant sciences.
- The students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses. Students will also learn team workmanship in order to serve the institutions, industry, and society efficiently.
- The students will possess minimum standards of communication skills expected from a Botany graduate in the country. They will also become acritical thinker and acquire problem-solving capabilities.
- This programme will help the students in finding career opportunities in higher education in the field of plant sciences and other entrepreneurship programmes.

- Understand the general characters, economic importance and life-cycles of various groups of general microbes, algae and fungi.
- Learners will also be able to explain their impact on environment, human welfare androle in industries.

- Understanding the evolutionary significance of these organisms, in terms of phylogenetic implications on thallophyta.
- Understand the general characters, economic importance and life-cycles of various groups of Bryophytes and Pteridophytes.
- Explain their role in environment, human welfare and industrial applications.
- > Understanding the evolutionary significance of these plants.
- > Explain the concept of ecology and the influence of different environmental factors: climatic,
- > Physiographic and edaphic factors on plant life system.
- Comprehend the concept of phytogeographic zonation of India, biodiversity and its conservation.
- > Discuss the essentials of plant taxonomy and taxonomic hierarchy.



Course: Bachelor of Science	
Subject: Zoology Semester: I-VI	
Web Link https:	//design.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	To develop skills in graduate students to be able to acquire theoretical and practical knowledge in fundamentals of biology in respective disciplines of plants, animals, microbes and environment.
Communication	To inculcate ability to critically evaluate problems and apply lateral thinking and analytical skills for professional development.
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.
Investigation of Problems	To prepare youth for career in teaching, industry, government organizations and self reliant entrepreneurship.
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.
Science and Society	To provide learning experience in students that instills deep interest in biological science for the benefit of society.
	Programme Specific Outcomes(POs)
 variations in th Young student the cellular and Youth will be and solving v consideration e Teaching of th Zoology with e This PG prog sustainable util This programm 	gain knowledge to develop acquaintance of animal species around them and eir life cycles/biology and their interaction with the environment. s will be also be apprised about likeness between the physiological processes at l organismic levels. capable of using knowledge of subject and analytical methods in identifying various complex situations of living forms and environment taking into thics and responsibilities. his subject will also develop ability in youth to have understanding of basic effective communication ability. rramme will develop youth who is aware of natural resources and their ization. he will develop personnel who can be capable of doing Masters in the subject Course Outcomes(COs)
	e able to describe unique characters and recognize life functions of phylum
	Tera, Coelenterate and Helminthes le to identify the diversity and ecological role of phylum Protozoa, Porifera, and Helminthes.

Student will be able to describe unique characters and recognize life functions of Phylum Annelida up to Hemichordata.

▶ Will be capable to identify the diversity and ecological role of Phylum Annelida up to



Hemichordata.

- Students will be capable of identifying the characters and classification of invertebrates species.
- Students will be able to realize and explain ecological and economic importance of different invertebrate species
- Through this core course the students will be capable of identifying different protochordate and will be capable of Imparting conceptual knowledge of protochordates, their adaptations and associations in relation to their environment.
- ➤ Will be able to understand the basic concepts of evolutionary relationship among protochordates and fishes.
- Students will be able to understand evolutionary lines of vertebrate class including amphibians, reptiles, birds, and mammals.
- Students will be able to identify (based on morphological characters) and understand adaptations in vertebrate class including amphibians, reptiles, birds, and mammals.



Course: Bachelor of Arts			
Subject: Psychology			
Semester: I-VI			
Web Link https://design.cblu.ac.in/syllabi/			
Programme Outcomes(POs)			
1.	1. Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;		
2. Apply critical and analytical skills and methods to the identification and resolution of			
2.	problems within complex changing social contexts.		
 Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages. 			
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.		
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.		
	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.		
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.		
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the		
	workplace and personal life.		
	Programme Specific Outcomes(POs)		
•	Students will be able to acquire and explore understanding of different theoretical concepts for study of human behavior		
•	 Students will be able to acquire understanding of main psychological processes, domains of human development and theoretical understanding of various mental disorders. 		
 Students will be able to handle psychological tools and demonstrate ethical application or skills in Psychological testing, Counselling and other helping areas. 			
•	 Students will be able to have empirical understanding of different psychological phenomen for promotion of health and well -being. 		
Course Outcomes(COs)			
\triangleright	Acquaint with various measuring instruments.		
\triangleright	Conduct tests related to their theory paper.		
\triangleright	Acquaint with the main symptoms and sources of stress		
\triangleright	Learn different ways of coping with stress.		
\triangleright	Develop appreciation for decision making in life		
\triangleright	Develop skills for decision Making in various domains of daily life.		
\triangleright	Inculcate knowledge regarding various principles of Social Psychology.		
\triangleright	Get exposure regarding strategies of dealing with Social issues.		
\triangleright	Get awareness regarding different domains of Adolescent development.		
\triangleright	Develop insight regarding different issues and coping strategies.		



Course: Bachelor of Arts			
Subject: History			
Semester: I-VI			
Web L	Web Link https://design.cblu.ac.in/syllabi/		
	Programme Outcomes(POs)		
1.	There are different scopes in different areas like sericulture department as demonstrator, care taker of the farm, trainer for others, etc.		
2.	Archeologist: Archeological Survey of India with private Firms related to archeology.		
3.	Historian: With so much debate over the authenticity of historical books, there is ever increasing demand for historians.		
4.	Public Service: for history graduates, the option of public service like UPSC, HPSC, Banking, Police Department, Army, etc. are always opened.		
5.	Teacher: After BA in history one can always find employment as a history/social science teacher.		
	Social Worker/Subject Expert: Nowadays a lot of publishing houses seek subject matter experts for the publication of school textbooks or supplementary reading materials.		
7.	Travel and Tourism Expert: With an extensive knowledge of history and historical		
	monuments, history graduates can work as a travel expert for tourism spot of historical		
	importance.		
	Programme Specific Outcomes(POs)		
•	To introduce the students to the major element of politics and administration in Ancient India. It intends to present and overview of changes in historical context.		
•	A few introductory lectures on the meaning and scope of history, expansion of Harappan civilization, Vedic polity, Mauryan polity, Post-Mauryan State, expansion of Gupta Empire,		
	rise of Rajput power.		
•	• Invasions of Mahmood Ghaznavi and Muhammad Ghori would be required to commence the paper.		
	Course Outcomes(COs)		
•	List the sources and evidence for reconstructing the history of Ancient India.		
•	Discuss the main features of Harappan and Saraswati Civilization.		
•	Analysis Vedic polity and state, rise of Magdha Empire.		
•	Examine the Mauryan polity under Chandra Gupta Maurya and Ashoka.		
•	Discuss the Achievements of Kushanas and Satvahanas.		
•	Examine the expansion of Gupta Empire under Samudragupta and Chandragupta- II.		
•	Describe the achievements of Harshvardhana, Chalukaya and Kushana.		
•	Explain the rise of Rajputs and Invasions of Mahmood Ghaznavi and Muhammad Ghori.		



	Course: Bachelor of Arts			
	Subject: Political-Science			
	Semester: I-VI			
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>			
	Programme Outcomes(POs)			
1. Demonstrate a detailed knowledge and understanding of selected fields of study in core				
2	disciplines in the humanities, social sciences and languages;			
2.	2. Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.			
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages;			
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories;			
5.	5. Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;			
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;			
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;			
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the			
	workplace and personal life.			
	Programme Specific Outcomes(POs)			
٠	Honing of critical faculties of students for the examination of political phenomena.			
٠	The students shall be able to develop an understanding of political events, institutions and			
	processes with the ability to suggest remedies for the challenges therein.			
•	The students shall be able to develop an enhanced sensitivity to social and political issues so			
	as to become active members of the citizenry. The students shall be able to demonstrate the conceptual and theoretical understanding of			
•	politics for the analysis of political behaviour.			
	Course Outcomes(COs)			
\triangleright	Understand the meaning, nature and significance of Political Theory.			
	Develop a deeper understanding of concepts related to Political Theory.			
\triangleright	Critically analyse various ideologies like Marxism, Liberalism, Feminism, Ecologism.			
\triangleright	Comprehend the importance of debates like Protective discrimination and Citizenship			
\triangleright	Understand the philosophy of Indian Constitution.			
	Comprehend the functioning of Legislature, Executive & Judiciary.			
	Develop a deeper understanding of Centre – State relations.			
	Analyse the role of Caste, Religion, Region in Indian Politics.			
	Understand the nature, scope, development of international relations.			
	Comprehend the major approaches of international relations like idealism, realism, liberalism and Marxism.			



	Course: Bachelor of Arts			
Subject: Sanskrit				
	Semester: I-VI			
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>			
	Programme Outcomes(POs)			
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages.			
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.			
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.			
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.			
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.			
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.			
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.			
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.			
	Programme Specific Outcomes(POs)			
•	Enhance communication skills-Listening, Speaking, Reading, Writing.			
•	Students will be able to write Devnagari scripts which provide them paleographical knowledge to read out the script of modern languages like Hindi and Marathi.			
•	Increase in depth knowledge of the Core Areas of the subject. Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.			
•	Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philisophy, Grammar, Kavya, Smitisastra etc.			
•	To make them eligible for higher education.			
•	Develop research aptitude and independent thinking After becoming graduate students can apply in the field of UPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educational institutions.			
	Course Outcomes(COs)			
A	They should general introduction of Indian Petrology and definitions and examples of various artharlankara. The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.			
	The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.			
	They will be able to know the importance, propagation across the world of this language.			
\mathbf{A}	Students would know about the Vedic mantras, their application, Vedic grammar, socio- cultural life.			



➢ Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.



Web Lii	Subject: English Semester: I-VI
Web Liı	
Web Li	
1 1	Programme Outcomes(POs)
(Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;
1	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.
	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages;
	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories;
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;
6. (Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;
7	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;
	Work with independence, self-reflection and creativity to meet goals and challenges in the
,	workplace and personal life.
	Programme Specific Outcomes(POs)
• (Create social awareness with regard to society and culture.
	Communicate in English language with proper knowledge of the language.
	Evaluate teaching learning process through various teaching aids.
	Respond to the fecundity of imagination and verisimilitude of life which constitute the
(cognitive and rational response to society.
	Course Outcomes(COs)
	Understand the basics of grammar.
	Understand the difference of Received Pronunciation (RP) and Indian English.
	Grasp and recognize the phonetic symbols.
	Comprehend poetry and its different forms.
	Use tenses through different modules.
	Will be able to differentiate between poetry and prose.
	Perusal of short stories and essays will enrich their knowledge of tradition and culture.
	Components of grammar like Preposition, Article, Subject-verb agreement will provide close understanding of grammatical parameters
	Able to transcribe two/ three syllabled words.
> '	They will learn the basics of grammar and composition.



	Course: Bachelor of Arts
	Subject: Economics
	Semester: I-VI
Web Li	https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view
	Programme Outcomes(POs)
•	To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.
•	To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
•	To create awareness on ethical issues, good business practices, and ecology-economics interface
•	To development ability in youth for understanding basic economic rationality and effective communication skills
•	To prepare youth for career in teaching, industry, governmentor ganisations and self- entrepreneurship
•	To make students aware of natural resources, sustainable use and environment
•	To provide learning experience in students that instills deep interest in economic sciencefor the benefit of society.
	Programme Specific Outcomes(POs)
•	Demonstrate the knowledge and understanding of economic science i.e vital processes of economy, consumer and producer behavior at micro level and macro-level. Critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts and tradeoffs and welfare implications of
•	economic measures to improve the quality of life in person as well as of community. Demonstrate an understanding of the principles, methods of economic analysis in static and dynamic terms, analysis of economic data.
•	Concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation.
	Course Outcomes(COs)
>	Have understanding about the market, market structure, perfect competition and firm's equilibrium under it in short and long run.
\triangleright	Have insight about monopoly, nature of monopoly, firm's equilibrium and price discrimination.
\blacktriangleright	Have knowledge about nature of imperfect markets viz monopolistic competition, Oligopoly, firms' strategies.
	Have understanding about the distribution and microeco theories of distribution, traditional and modern approach, determination of interest rate and wages, different theories related to interest and wages.
	Have insight about macroeconomics, nature & scope, methodology; national income and circular flow of income in economy.
	Have understanding of macroeconomic behavior in terms of classical theory of employment, Say's law, Keynes' theory of equilibrium level of income and employment, a comparison.
	Have knowledge about consumption bevaiour at macroeconomic level, Keynes' psychological law or consumption, hypotheses about long run income-consumption relationship.
\triangleright	Have understanding about capital and investment, decision to invest at macroeconomic level

,determinants of induced investment.

Have understanding about income generation process through Investment, multiplier effect and acceleration effect of income ,combined action of multiplier and acceleration effect.



	Course: Bachelor of Arts		
	Subject: Hindi		
	Semester: I-VI		
	Web Link https://design.cblu.ac.in/syllabi/		
P	rogramme Outcomes(POs)/ Programme Specific Outcomes(POs)/ Course Outcomes(COs)		
1	व्यवहारिक व व्यावसायिक जीवन में भाषा का विशेषकर हिंदी भाषा का सही प्रयोग कर		
	सकेगा। हिंदी भाषा के विकास के माध्यम से भाषा के सैद्धांतिक पहलुओं तथा उसके परिवर्तन		
	की दिशाओं का बोध होगा।		
2	समकालीन साहित्य के विविध गद्य व पद्य रूपों के माध्यम से अपने युग का बोध होगा।		
3	साहित्य की विभिन्न विधाओं में रचनात्मक लेखन व संप्रेषण की क्षमता विकसित होगी।		
4	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक समझ विकसित होगी।		
5	साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।		
6	व्यक्तित्व विकास व जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता,		
	जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।		



	Course: Bachelor of Commerce		
	Subject: CA/ASM/Pass Course		
Semester: I-VI			
Web L	Web Link https://design.cblu.ac.in/syllabi/		
	Programme Outcomes(POs)		
1.	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,well trained professionals to meet the requirements.		
	After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company. Capability of the students to make decisions at personal & professional level will increase		
5.	after completion of this course.		
4.	Students can independently start up their own Business.		
	Students can get thorough knowledge of finance and commerce.		
6.	knowledge of different specializations in Accounting, costing, banking and finance with the		
	practical exposure helps the students to stand in organization.		
	Programme Specific Outcomes(POs)		
•	The students can get the knowledge, skills and attitudes during the end of the B.com degree course.		
•	By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government		
•	employments and so on.,		
•	Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC. As well as other coerces.		
•	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.		
	Course Outcomes(COs)		
\checkmark	Illustrate the understanding of theoretical framework of accounting and be able to prepare financial statements of business organizations with additional items.		
\triangleright	Prepare the financial statements for non-profit organization.		
\triangleright	Analyse and apply Accounting Standards according to requirements.		
\succ	Apply the knowledge and skills of accounting to prepare joint ventures.		
\blacktriangleright	Exhibit the knowledge of the conceptual framework of business, commerce and management and analyse the approaches concerning management thought.		
\triangleright	Apply the understanding of concepts of planning and organizing functions of management.		
\succ	Assimilate and use the concepts of delegation, decentralization and staffing in organizations.		
	Comprehend the concept and applications of leadership styles, and controlling practices in organizations.		



- Exhibit proficiency in using different matrix methods in solving real life business and economic problems.
- Apply the understanding of the various type of interest and annuity in solving business related problems.



	Course: Bachelor of Business Administration	
L L	Semester: I-VI	
Web Link https://d	rive.google.com/file/d/1xqtINbbOcUtEKIOD3UbO7fexKAAVqTmc/view_	
	Programme Outcomes(POs)	
Soft skills and working	To comprehend, communicate and execute effectively and efficiently in	
skills	all of their dealings	
Leadership	To develop abilities to both lead and respect the views positions and	
-	beliefs of others and to plan and manage effectively.	
Innovativeness and	To explore issues and problem that needs solutions with entrepreneurial	
Entrepreneurship	orientation	
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life	
Adaptability and	Ready to understand and adapt the changing environment	
Sociability		
Research and Analytical	To explore, analyses and provide solutions on emerging issues concerning	
abilities	various fields including public policy.	
Practical exposure and	Exposure to actual working environment leading to employability	
Employability		
Environmental	In every action, dealing, service, and manifestation	
Consciousness		
	Programme Specific Outcomes(POs)	
 Manifest execut 	ve knowledge to handle varied business situations & tasks effectively to	
solve business pr	oblems.	
	fectively executive and supervisory roles in organizations.	
	oply ethical principles & make value based decisions as socially responsible	
citizens.		
Communicate &	work in teams towards organizational goals.	
	Course Outcomes(COs)	
Become aware of	entrepreneurship opportunities available in the society for the entrepreneur.	
Develop a busine		
 Understand importance of innovation and creativity in entrepreneurial ventures. 		
	• 1	

- > Understand governmental framework for entrepreneurial development.
- > Comprehend the role of SIDBI, MSME, SHGs in entrepreneurial development.
- Apply techniques of effective goal setting, follow basic business etiquettes in corporate setting and enhance their self-esteem and confidence.
- Apply effective time management skills and enhance their reading, writing, speaking and listening skills.
- Apply techniques of self-motivation and motivation of others and adapt to changes in a better manner.



- > Enhance their EQ and develop creative thinking.
- > Enhance their personality for focused behaviour.



Course: Master of Arts			
Subject: Hindi			
Semester: I-IV			
Web Link <u>https://dri</u>	ve.google.com/file/d/1EkCoktcXope7Hv-xhJFY9C79WRpTiTFy/view		
	Programme Outcomes(POs)		
Depth and Breadth of	A systematic understanding of knowledge within the discipline and in		
Knowledge	related discipline/s, and a critical awareness of current problems and/or		
	new insights informed by the forefront of their academic discipline.		
Research and scholarship	a) A working comprehension of how established techniques of research		
	and inquiry are used to create and interpret knowledge in the discipline.		
	b) A treatment of complex issues and judgments based on established		
	principles and techniques.		
Level of application of	Competence in applying an existing body of knowledge in the critical		
knowledge	analysis of a new question or of a specific problem or issue.		
Awareness of limits of	Cognizance of the complexity of knowledge and of the potential		
knowledge	contributions of other interpretations, methods, and disciplines		
Professional	Acquiring and showing qualities and transferable skills necessary for		
capacity/autonomy	employment: exercise of initiative, personal responsibility, intellectual		
	independence, ethical behavior and academic integrity.		
Level of Communication	Ability to communicate effectively in presenting ideas orally and in		
Skills	writing (oral communication; written communication).		
Programme Specific Outcomes(POs)			

- 1. भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
- साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक, संवेदनशील दृष्टि व व्यक्तित्व का विकास।
- 3. हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित होगी। विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
- 4. साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
- जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक जान।
- 6. भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अन्तर्निहित एकता के तत्त्वों का परिचय व पहचान होगी। देश व समाज की एकता-अंखडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्त्वों की पहचान।



- > इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
- > हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
- मध्यकाल के विभिन्न संप्रदायों की दार्शनिक पृष्ठभूमि का ज्ञान होगा।
- > भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
- > आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी।
- > आध्निक हिंदी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय।
- > आधुनिक हिंदी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध।
- > आधुनिक हिंदी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध।



Course: Master of Science				
Subject: Mathematics				
	Semester: I-IV			
Web Linkhttps://dx	rive.google.com/file/d/1Z-nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view_			
Programme Outcomes(POs)				
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained			
	during course of study			
Research Aptitude	Capability to ask relevant/appropriate questions for identifying,			
	formulating and analyzing the research problems and to draw conclusion from the analysis			
Communication	Ability to communicate effectively on general and scientific topics with			
	the scientific community and with society at large			
Problem Solving	Capability of applying knowledge to solve scientific and other problems			
Individual and Team	Capable to learn and work effectively as an individual, and as a member			
Work	or leader in diverse teams, in multidisciplinary settings.			
Investigation of	Ability of critical thinking, analytical reasoning and research based			
Problems	knowledge including design of experiments, analysis and interpretation of			
	data to provide conclusions			
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific			
	practices			
Science and Society	Ability to apply reasoning to assess the different issues related to society			
	and the consequent responsibilities relevant to the professional scientific			
	practices			
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating			
	in learning activities throughout life			
Ethics	Capability to identify and apply ethical issues related to one's work, avoid			
	unethical behaviour such as fabrication of data, committing plagiarism			
	and unbiased truthful actions in all aspects of work			
Project Management	Ability to demonstrate knowledge and understanding of the scientific			
	principles and apply these to manage projects			
	Programme Specific Outcomes(POs)			

• Have deep understanding and knowledge in the core areas of Mathematics and demonstrate understanding and application of the concepts/theories/principles/ methods/ techniques in different areas of pure and applied Mathematics.

- Have capability to read and understand mathematical texts, demonstrate and communicate mathematical knowledge effectively and unambiguously through oral and/or written expressions and attain skills of computing/programming/using software tools/formulating models.
- Attain abilities of critical thinking, logical reasoning, investigating problems, analysis, problem solving, application of mathematical methods/techniques, disciplinary knowledge so as to develop skills to solve mathematical problems having applications in other disciplines and/or in the real world.

• Have strong foundation in basic and applied aspects of Mathematics so as to venture into research in different areas of mathematical sciences, jobs in scientific and various industrial sectors and/or teaching career in Mathematics.

- Understand concepts of normal subgroup, quotient group, isomorphism, automorphism, conjugacy, G-sets, normal series, composition series, solvable group, nilpotent group and refinement theorem.
- ➤ Learn about cyclic decomposition, alternating group An , simplicity of An for n≥5, Sylow's theorem and its applications.
- Understand concepts of modules, submodules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
- Learn about similar linear transformation, triangular form, nilpotent transformation, primary decomposition theorem, Jordan form, rational canonical form and elementary divisors.
- Understand the concepts of limit, continuity, differentiation and integration for functions defined over a complex plane as well as for the elementary functions.
- Solve the complex integrals of various kinds through the applications of relevant theorems, formulae and power series expansions.
- Analyse the complex functions with singularities for zeroes and residues at poles and apply the results to solve the improper integrals.
- Solve complex improper integrals through the indentation, transformation/mapping of integration paths so as to avoid singularities and branch points/cuts.
- Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
- Learn about system of linear differential equations of first order and its preliminary concepts, homogeneous and non-homogeneous linear systems, existence and uniqueness theory, fundamental matrix, theory of adjoint systems, linear systems with constant coefficients and with periodic coefficients. Attain the skill to obtain fundamental matrix of such a given linear system to demonstrate problem solving.



	Course: Master of Commerce
	Semester: I-IV
Web Linkhttps://dr	rive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/view
	Programme Outcomes(POs)
Soft Skills and Working	To comprehend, communicate and execute effectively and efficiently in
Skills	all of their dealings
Leadership	To develop abilities to both lead and respect the views, positions and
	beliefs of others and to plan and manage effectively.
Innovativeness and	To explore issues and problems that needs solutions with entrepreneurial
Entrepreneurship	orientation.
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life.
Adaptability and	Ready to understand and adapt the changing environment.
Sociability	
Research and Analytical	To explore, analyses and provide solutions on emerging issues concerning
abilities	various fields including public policy.
Practical exposure and	Exposure to actual working environment leading to employability.
Employability	
Environmental	In every action, dealing, service and manifestation.
Consciousness	
	Programme Specific Outcomes(POs)
 To develop the a making. To nurture the res of business ethics 	understand the operation of commercial activities. nalytical abilities, managerial skills and capabilities for business decision search aptitude and use the same for solving business problems in paradigm and social responsibility. entrepreneurial capabilities and enhance employability.
	Course Outcomes(COs)
\blacktriangleright Know the basic co	oncept of GST.
Understand the pr	ovisions of GST Act regarding levy and collection of GST.
Apply the provision	ons for computation of GST.
➢ Understand the Ce	entral Excise Laws and Custom Laws.
To develop an und	derstanding of the conceptual framework of the Management Accounting.
To provide the ki making.	nowledge in the Management Accounting Techniques in business decision
To provide under latest developmen	standing of the Tasks, Functions and Skills of strategic management and its.
\blacktriangleright To aware the stud	ents about principles and functions of strategic management.
To develop know Management	ledge about Business Finance and the background of Accounting and



> To make students aware about the challenges and opportunities of Financial Management



	Course: Master of Science
	Subject: Computer Science
X / 1 X	Semester: I-IV
Web L	
1	Programme Outcomes(POs) Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during
1.	course of study.
	Research Aptitude Capability to ask relevant/appropriate questions for identifying, formulating and analyzing the research problems and to draw conclusion from the analysis. Communication Ability to communicate effectively on general and scientific topics with the
	scientific community and with society at large.
	Problem Solving Capability of applying knowledge to solve scientific and other problems Individual and Team Work Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.
6.	Investigation of Problems Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions.
7.	Modern Tool usage Ability to use and learn techniques, skills and modern tools for scientific practices.
8.	Science and Society Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific practices.
	Programme Specific Outcomes(POs)
•	Provide exposure to the hardware and software environment of computer systems along with a comprehensive strengthening of computational expertise in programming languages and open source platforms.
•	Enhance competency in designing and modeling software based applications with enrichment of proficiency in software design skills.
•	Strengthen technical skills and professional expertise in adopting contemporary trends and technological developments for the application of innovative approaches and propositions to real-world problem scenario.
•	Inspire pursuance of skillful expertise for careers in Commercial/ Government Sectors, Academics/ Consultancy/ Research and Development for technological innovations, and collateral fields related to Computer Science and Information Technology.
	Course Outcomes(COs)
\triangleright	Review the fundamental aspects of database along with EER model.
	Get the practical exposure to SQL and PL/SQL to implement database management system in an organization.
\triangleright	Learn normalization and concurrency control techniques.
	Acquire knowledge of different kind of emerging databases in real life scenario.
	Understand the basic concepts and commands of Linux;
_	Understand the file management and process manipulation in Linux.

- Understand the C environment under Linux and do the system administration and communication in Linux.
- Develop shell programs in Linux.
- > Understand the basic concepts of sets, function and relations.
- > Understand logics and counting principles.



VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

2.6 Programme Outcomes(POs)/Programme SpecificOutcomes/Course Outcomes(COs)

(UG & PG Session 2022-2023)





S.N	Class	Web Link
0		
1	B.Sc Chemistry	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
2	B.Sc Physics	https://design.cblu.ac.in/syllabi/
-	Semester: I-VI	
3	B.Sc./B.A	https://design.cblu.ac.in/syllabi/
	Mathematics	
	Semester: I-VI	
4	B.Sc.	https://design.cblu.ac.in/syllabi/
	Computer	
	Science/Bachel	
	or of Computer	
	Applications	
	Semester: I-VI	
5	B.Sc Botany	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
6	B.Sc Zoology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
7	B.A Psychology	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
8	B.A History	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
9	B.A Political-	https://design.cblu.ac.in/syllabi/
	Science	
	Semester: I-VI	
10	B.A Sanskrit	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
11	B.A English	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
12	B.A Economics	https://drive.google.com/file/d/1sMpGNiaTwdcTtiAq6srrgkfgIuoy62qc/view
	Semester: I-VI	
13	B.A Hindi	https://design.cblu.ac.in/syllabi/
	Semester: I-VI	
14	B.Com.	https://design.cblu.ac.in/syllabi/
	CA/ASM/Pass	
	Course	
	Semester: I-VI	
15	B.B.A	https://drive.google.com/file/d/1xqtINbbOcUtEKlOD3UbO7fexKAAVqTmc
	Semester: I-VI	<u>/view</u>
16	M.A Hindi	https://drive.google.com/file/d/1EkCoktcXope7Hv-
	Semester: I-IV	xhJFY9C79WRpTiTFy/view
17	M.Sc.	https://drive.google.com/file/d/1Z-
	Mathematics	nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view
	Semester: I-IV	
18	M.Com.	https://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/v



	Semester: I-IV	iew
19	M.Sc. Computer Science	https://drive.google.com/file/d/1rAb2anIVm91uuE3whrQ8MnKfV4RwmXm <u>h/view</u>
20	M.Sc. Chemistry	https://drive.google.com/file/d/1dpBXB-ox4uRJN5vWq7eAEADWd2rvKv20/view
21	M.Sc. Physics	https://drive.google.com/file/d/1qixWv54MF31uB83HQZp0mMvefQoV7hdg/view
22	M.A. History	https://drive.google.com/file/d/19SuMAjAuR1xL5Xbwv3yeYQYWMLRnsXJZ/view



VAISH COLLEGE, BHIWANI

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Programme Outcomes(POs)/Programme Specific Outcomes/Course

Outcomes(COs):

	Course: Bachelor of Science
Subject: Chemistry	
	Semester: I-VI
Web Link	https://design.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during
	course of study
Communication	Ability to communicate effectively on general and scientific topics with the
	scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and	Capable to learn and work effectively as an individual , and as a member or
Team Work	leader in diverse teams, multidisciplinary settings
Investigation of	Ability of critical thinking, analytical reasoning and research based knowledge
Problems	including design of experiments, analysis and interpretation of data to provide
	conclusions
Modern Tool	Ability to use and learn techniques, skills and modern tools for scientific
usage	practices
Science and	Ability to apply reasoning to assess the different issues related to society and
Society	the consequent responsibilities relevant to the professional scientific practices
Life-Long	Aptitude to apply knowledge and skills that are necessary for participating in
Learning	learning activities throughout life
Environment and	Ability to design and develop modern systems which are environmentally
Sustainability	sensitive and to understand the importance of sustainable development
Ethics	Apply ethical principles and professional responsibilities in scientific practices
Project	Ability to demonstrate knowledge and understanding of the scientific principles
Management	and apply these to manage projects

Programme Specific Outcomes(POs)

- Acquire good knowledge about the fundamentals and applications of chemical and scientific theories.
- All branches of Science and Technology are related to Chemistry.
- Easily assess the properties of all elements discovered.
- Will become familiar with the different branches of chemistry like analytical, physical,



organic, inorganic, environmental and polymer.

- Will help in understanding the causes of environmental pollution and can open up new methods to control environmental pollution.
- Will develop analytical skills and problem-solving skills requiring application of chemical principles.
- Have the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.

- States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.
- To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.
- > Know about Spin quantum numbers and magnetic quantum numbers and their significance.
- > Have knowledge about Electronic configuration, Effective nuclear charge and slater's rule.
- To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases
- To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules
- To study the Physical properties of liquids like surface tension, viscosity and their measurements
- Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.
- Get information about the types of structural and stereoisomers, optical isomerism, and different nomenclature like D/L, RScis/trans, E/Z etc. of various organic compounds.
- > To gain knowledge about Preparation of standard solutions used in the lab.



Course: Bachelor of Science	
	Subject: Physics
XX7 1 T • 1 1 //	Semester: I-VI
Web Link https://d	design.cblu.ac.in/syllabi/ Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained
C C	during course of study
Communication	Ability to communicate effectively on general and scientific topics with
	the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team	Capable to learn and work effectively as an individual , and as a member
Work	or leader in diverse teams, multidisciplinary settings
Investigation of	Ability of critical thinking, analytical reasoning and research based
Problems	knowledge including design of experiments, analysis and interpretation of
	data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific
	practices
Science and Society	Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific
	practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating
	in learning activities throughout life
Environment and	Ability to design and develop modern systems which are environmentally
Sustainability	sensitive and to understand the importance of sustainable development
Ethics	Apply ethical principles and professional responsibilities in scientific
	practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific
	principles and apply these to manage projects
	Programme Specific Outcomes(POs)
-	epth understanding and knowledge of the basic concepts of physics and be
able to apprecia	te how diverse phenomena observed in nature follow from a small set of

fundamental laws through logical reasoning.



- Be capable of understanding the core physical laws to understand the basic concepts, latest progress and applications of certain sub fields such as nuclear physics, spectroscopy of atoms & molecules, solid state physics, computational physics & electronics.
- Gain hands-on skills for carrying out basic experiments as well as experiments related to different fields of Physics and attain abilities of critical thinking, problem mapping & solving using fundamental principles of Physics, systematic analysis & interpretation of results.
- Have a new perspective to look at everything from 'Scientific' point of view that enabling them to pursue higher studies at postgraduate & research level
- Have awareness of the impact of Physics in social, economical and environmental issues.

- Learn the concept of conservation of energy, momentum, angular momentum and apply them to understand the basic problems in physics.
- Understand and explain the Hamilton's variational principle, derive Lagrange's equation of motion from Hamilton's principle and be able to apply these principles to derive the Lagrangian and Hamiltonian for various simple mechanical systems such as Linear Harmonic oscillator, Simple pendulum, Atwood's machine.
- Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.
- Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to Apply Gauss's law of electrostatics to solve a variety of problems.
- > Understand the complex electrical networks analysis using different network theorems.
- > Hands on experience with the uses of multimeter.
- Understand the basic concepts of thermodynamics, the first and the second law of thermodynamics, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, the concept of entropy and the associated theorems, calculations of entropy of reversible & irreversible process, T-S diagram and Nernst heat law (third law of thermodynamics).
- Understand the need and application of Quantum Statistics: Bose-Einstein & Fermi-Dirac statistics and be able to articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- Learn and understand the different law's and theory of specific heat of solids and their significance.

Hands on experience with different instruments and appreciate the beauty of different concepts and related experiments in Physics.



С	Course: Bachelor of Science/ Bachelor of Arts	
	Subject: Mathematics	
	Semester: I-VI	
Web Linkhttps://de	esign.cblu.ac.in/syllabi/	
	Programme Outcomes(POs)	
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study	
Communication	Ability to communicate effectively on general and scientifictopics with the scientific community and with society at large	
Problem Solving	Capability of applying knowledge to solve scientific and other problems	
Individual and Team Work	Capable to learn and work effectively as an individual, and as amember or leader in diverse teams, in multidisciplinary settings.	
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions	
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices	
Science and Society	Ability to apply reasoning to assess the different issues related tosociety and the consequent responsibilities relevant to the professional scientific practices	
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life	
Environment and Sustainability	Ability to design and developmodern systems which are environmentally sensitive and to understand the importance of sustainable development.	
Ethics	Apply ethical principles and professional responsibilities inscientific practices	
Project Management	Ability to demonstrate knowledge and understanding of thescientific principles and apply these to manage projects	
	Programme Specific Outcomes(POs)	

- Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts /theories/methods from such areas of Mathematics.
- Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research inMathematics.
- Communicate mathematics effectively and precisely by written, computational and graphical means.
- Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyse, evaluate and solve problems of Mathematics and/or the mathematical problems having



applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

- Understand the basic concepts of ordinary differential equations and to learn various techniques of finding exact solutions of certain solvable first order differential equations. and.
- Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients.
- Understand total differential equations and basic concepts of partial differential equations. To learn methods and techniques for solving linear PDEs of first order.
- Apply theory of PDEs to determine integral surfaces through a given curve and to find orthogonal surfaces. To understand compatible systems and Charpit method, Jacobi method methods for solving PDEs. To learn techniques of solving second order PDEs.
- Practical problems of checking continuity and differentiability, finding maxima and minima of functions of several variables, evaluating double and triple integrals.
- > Develop skills of solving ODEs and PDEs.
- Hands-on experience to find partial derivatives, total derivative and to plot graphs of functions by using built in functions of MAXIMA software.
- Understand basic concepts of real number system and set theory. Preliminary results on neighbourhood of a point, interior and limit points, open sets, closed sets etc.
- Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems.
- Understand infinite series and its basic properties. Attain skills to determine convergence of a series of real numbers by applying various tests.



	Course: Bachelor of Science
Subject: Computer Science/Bachelor of Computer Applications	
	Semester: I-VI
Web Link <u>https://d</u>	esign.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained duringcourse of study
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader indiverse teams, in multidisciplinary settings'
Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices
Science and Society	Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learningactivities throughout the life
Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.
Ethics	Apply ethical principles and professional responsibilities in scientific practices
Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects
	Programme Specific Outcomes(POs)

- Students will be able to acquire the basic understanding of the principles and working of the
- hardware and software aspects of computer systems.
- Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
- Papers such as C++, JAVA, Python, Web designing give an effective and efficient real time solution in various domains.

- > Learn the concepts of algebraic methods and find solutions of polynomial equation.
- > Apply numerical methods to obtain approximate solutions to mathematical problems.
- Fit curves & find correlations.
- Solve statistical problems probability distributions.



- Understand and characterize various types of computer networks along with an overview of the standardOSI and TCP/IP reference models that illustrates the network architecture;
- Have a comprehensive understanding of data communication and basic terminology along with itshardware components.
- Conceptualize the various design issues related to data link layer.
- Get familiar with routing and security issues related to computer networks and the solutions forhandling security related problems in networks
- Understand Linux architecture;
- > Ability to use various Linux commands that are used to manipulate system operations.



	Course: Bachelor of Science	
	Subject: Botany	
	Semester: I-VI	
Web Link <u>https://d</u>	design.cblu.ac.in/syllabi/	
Programme Outcomes(POs)		
Knowledge	To develop skills in graduate students to be able to acquire theoretical and	
-	practical knowledge in fundamentals of biology in respective disciplines	
	of plants, animals, microbes and environment.	
Communication	To inculcate ability to critically evaluate problems and apply lateral	
	thinking and analytical skills for professional development.	
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.	
Individual and Team Work	To develop ability in youth for understanding basic scientific learning and effective communication skills.	
Investigation of Problems	To prepare youth for career in teaching, industry, government organizations and self reliant entrepreneurship.	
Modern Tool usage	To make students aware of natural resources and environment and its sustainable utilization.	
Science and	To provide learning experience in students that instills deep interest in	
Society	biological science for the benefit of society.	
	Programme Specific Outcomes(POs)	

• The students will be able to identify the various plants and compare the diagnostic characteristics of lower and higher groups of plants. This comparative approach will help the students to explain the evolution and degree of genetic diversity in plants.

- The students will be able to explain the various biological processes in plants and how they are sustained and regulated at the cellular and molecular levels. Students will also be able to understand the ecology, development, and behavior of different forms of life.
- The students will be able to describe and demonstrate the different experimental techniques and methods in various fields of plant sciences.
- The students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses. Students will also learn team workmanship in order to serve the institutions, industry, and society efficiently.
- The students will possess minimum standards of communication skills expected from a Botany graduate in the country. They will also become acritical thinker and acquire problem- solving capabilities.
- This programme will help the students in finding career opportunities in higher education in the field of plant sciences and other entrepreneurship programmes.

- Understand the general characters, economic importance and life-cycles of various groups of general microbes, algae and fungi.
- Learners will also be able to explain their impact on environment, human welfare androle in industries.



- Understanding the evolutionary significance of these organisms, in terms of phylogenetic implications on thallophyta.
- Understand the general characters, economic importance and life-cycles of various groups of Bryophytes and Pteridophytes.
- > Explain their role in environment, human welfare and industrial applications.
- > Understanding the evolutionary significance of these plants.
- > Explain the concept of ecology and the influence of different environmental factors: climatic,
- > Physiographic and edaphic factors on plant life system.
- Comprehend the concept of phytogeographic zonation of India, biodiversity and its conservation.
- > Discuss the essentials of plant taxonomy and taxonomic hierarchy.



	Course: Bachelor of Science
	Subject: Zoology
	Semester: I-VI
Web Link <u>http</u>	s://design.cblu.ac.in/syllabi/
	Programme Outcomes(POs)
Knowledge	To develop skills in graduate students to be able to acquire theoretical and
	practical knowledge in fundamentals of biology in respective disciplines of plants, animals, microbes and environment.
<u>C</u>	To inculcate ability to critically evaluate problems and apply lateral
Communication	thinking and analytical skills for professional development.
Problem Solving	To create awareness on ethical issues, good laboratory practices and biosafety.
Individual and	To develop ability in youth for understanding basic scientific learning and
Team Work	effective communication skills.
Investigation of	To prepare youth for career in teaching, industry, government
Problems	organizations and self reliant entrepreneurship.
Modern Tool usage	To make students aware of natural resources and environment and its
C	sustainable utilization.
Science and	To provide learning experience in students that instills deep interest in
Society	biological science for the benefit of society.
	Programme Specific Outcomes(POs)
	gain knowledge to develop acquaintance of animal species around them and
	heir life cycles/biology and their interaction with the environment.
-	ts will be also be apprised about likeness between the physiological processes at ad organismic levels.
	e capable of using knowledge of subject and analytical methods in identifying
and solving	various complex situations of living forms and environment taking into ethics and responsibilities.
• Teaching of	this subject will also develop ability in youth to have understanding of basic effective communication ability.
	camme will develop youth who is aware of natural resources and their sustainable
utilization.	
1 0	me will develop personnel who can be capable of doing Masters in the subject and areer as teacher, in industry or as entrepreneur in the realms of the subject.
can develop e	Course Outcomes(COs)
➢ Student will	be able to describe unique characters and recognize life functions of phylum
	ifera, Coelenterate and Helminthes
-	ble to identify the diversity and ecological role of phylum Protozoa, Porifera, and Helminthes.
	be able to describe unique characters and recognize life functions of Phylum o Hemichordata.
➢ Will be capa	ble to identify the diversity and ecological role of Phylum Annelida up to
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Hemichordata.

- > Students will be capable of identifying the characters and classification of invertebratesspecies.
- Students will be able to realize and explain ecological and economic importance of different invertebrate species
- Through this core course the students will be capable of identifying different protochordate and will be capable of Imparting conceptual knowledge of protochordates, their adaptations and associations in relation to their environment.
- ➢ Will be able to understand the basic concepts of evolutionary relationship among protochordates and fishes.
- Students will be able to understand evolutionary lines of vertebrate class including amphibians, reptiles, birds, and mammals.
- Students will be able to identify (based on morphological characters) and understand adaptations in vertebrate class including amphibians, reptiles, birds, and mammals.



	Course: Bachelor of Arts
	Subject: Psychology
	Semester: I-VI
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	Programme Outcomes(POs)
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages;
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life.
	Programme Specific Outcomes(POs)
٠	Students will be able to acquire and explore understanding of different theoretical concepts for study of human behavior
•	Students will be able to acquire understanding of main psychological processes, domains of human development and theoretical understanding of various mental disorders.
•	Students will be able to handle psychological tools and demonstrate ethical application of skills in Psychological testing, Counselling and other helping areas.
•	Students will be able to have empirical understanding of different psychological phenomena for promotion of health and well -being.
	Course Outcomes(COs)
	Acquaint with various measuring instruments.
\triangleright	Conduct tests related to their theory paper.
	Acquaint with the main symptoms and sources of stress
	Learn different ways of coping with stress.
	Develop appreciation for decision making in life
	Develop skills for decision Making in various domains of daily life.
	Inculcate knowledge regarding various principles of Social Psychology.
	Get exposure regarding strategies of dealing with Social issues.
	Get awareness regarding different domains of Adolescent development.
	Develop insight regarding different issues and coping strategies.



Course: Bachelor of Arts		
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Subject: Political-Science Semester: I-VI Web Link https://design.cblu.ac.in/syllabi/ Programme Outcomes(POs) 1. Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages; 2. Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts. 3. Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages; 4. Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories; 5. Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them; 6. Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency; 7. Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force; 8. Work with independence, self-reflection and creativity to meet goals and challenges in the workplace and personal life. Programme Specific Outcomes(POs) Intestudent shall be able to develop an understanding of political phenomena.		Course: Bachelor of Arts	
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	\succ	Understand the nature, scope, development of international relations.	



	Course: Bachelor of Arts
	Subject: Sanskrit
	Semester: I-VI
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>
	Programme Outcomes(POs)
1.	Demonstrate a detailed knowledge and understanding of selected fields of study in core
•	disciplines in the humanities, social sciences and languages.
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages.
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories.
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them.
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency.
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force.
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the
	workplace and personal life.
	Programme Specific Outcomes(POs)
•	Enhance communication skills-Listening, Speaking, Reading, Writing.
•	Students will be able to write Devnagari scripts which provide them paleographical
	knowledge to read out the script of modern languages like Hindi and Marathi.
•	Increase in depth knowledge of the Core Areas of the subject.
•	Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.
•	Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda,
	Philisophy, Grammar, Kavya, Smitisastra etc.
•	To make them eligible for higher education.
•	Develop research aptitude and independent thinking
•	After becoming graduate students can apply in the field of UPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educational institutions.
	Course Outcomes(COs)
\triangleright	They should general introduction of Indian Petrology and definitions and examples of various
	artharlankara. The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.
\blacktriangleright	The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.
\triangleright	They will be able to know the importance, propagation across the world of this language.
A	Students would know about the Vedic mantras, their application, Vedic grammar, socio- cultural life.



➢ Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.



	Course: Bachelor of Arts
	Subject: English
**/ 1 *	Semester: I-VI
Web L	
1	Programme Outcomes(POs) Demonstrate a detailed knowledge and understanding of selected fields of study in core
1.	disciplines in the humanities, social sciences and languages;
2.	Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.
3.	Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of the humanities, social sciences and languages;
4.	Apply an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories;
5.	Articulate the relationship between diverse forms of knowledge and the social, historical and cultural contexts that produced them;
6.	Communicate effectively and show ability to read, write, listen to and speak in a chosen language/s with fluency;
7.	Act as informed and critically discerning participants within the community of scholars, as citizens and in the work force;
8.	Work with independence, self-reflection and creativity to meet goals and challenges in the
	workplace and personal life.
	Programme Specific Outcomes(POs)
•	Create social awareness with regard to society and culture.
٠	Communicate in English language with proper knowledge of the language.
•	Evaluate teaching learning process through various teaching aids. Respond to the fecundity of imagination and verisimilitude of life which constitute the cognitive and rational response to society.
	Course Outcomes(COs)
	Understand the basics of grammar.
	Understand the difference of Received Pronunciation (RP) and Indian English.
	Grasp and recognize the phonetic symbols.
>	Comprehend poetry and its different forms.
	Use tenses through different modules.
	Will be able to differentiate between poetry and prose.
\succ	Perusal of short stories and essays will enrich their knowledge of tradition and culture.
	Components of grammar like Preposition, Article, Subject-verb agreement will provide close understanding of grammatical parameters
\triangleright	Able to transcribe two/ three syllabled words.
\triangleright	They will learn the basics of grammar and composition.
-	They will learn the basics of granniar and composition.



	Course: Bachelor of Arts
	Subject: Economics
	Semester: I-VI
Web L	
	Programme Outcomes(POs)
•	To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.
•	To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
•	To create awareness on ethical issues,good business practices,and ecology-economics interface
•	To development ability in youth for understanding basic economic rationality and effective communication skills
•	To prepare youth for career in teaching, industry, governmentor ganisations and self- entrepreneurship
٠	To make students aware of natural resoures, sustainable use and environment
•	To provide learning experience in students that instills deep interest in economic sciencefor the benefit of society.
	Programme Specific Outcomes(POs)
•	Demonstrate the knowledge and understanding of economic science i.e vital processes of economy, consumer and producer behavior at micro level and macro-level.
•	Critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts and tradeoffs and welfare implications of economic measures to improve the quality of life in person as well as of community. Demonstrate an understanding of the principles, methods of economic analysis in static and dynamic
•	terms, analysis of economic data. Concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation.
	Course Outcomes(COs)
	Have understanding about the market, market structure, perfect competition and firm's equilibrium under it in short and long run.
\succ	Have insight about monopoly, nature of monopoly, firm's equilibrium and price discrimination.
\triangleright	Have knowledge about nature of imperfect markets viz monopolistic competition, Oligopoly, firms' strategies.
	Have understanding about the distribution and microeco theories of distribution, traditional and modern approach, determination of interest rate and wages, different theories related to interest and wages.
\triangleright	Have insight about macroeconomics, nature & scope, methodology; national income and circular flow of income in economy.
	Have understanding of macroeconomic behavior in terms of classical theory of employment, Say's law, Keynes' theory of equilibrium level of income and employment, a comparison.
	Have knowledge about consumption bevaiour at macroeconomic level, Keynes' psychological law of consumption, hypotheses about long run income-consumption relationship.
\succ	Have understanding about capital and investment, decision to invest at macroeconomic level



,determinants of induced investment.

Have understanding about income generation process through Investment, multiplier effect and acceleration effect of income ,combined action of multiplier and acceleration effect.



	Course: Bachelor of Arts	
	Subject: Hindi	
	Semester: I-VI	
	https://design.cblu.ac.in/syllabi/ Dragaranna Outcomer(DOr) / Dragaranna Stragific Outcomer(DOr) / Course Outcomer(COr)	
P	Programme Outcomes(POs)/ Programme Specific Outcomes(POs)/ Course Outcomes(COs)	
1	ट्यवहारिक व ट्यावसायिक जीवन में भाषा का विशेषकर हिंदी भाषा का सही प्रयोग कर	
	सकेगा। हिंदी भाषा के विकास के माध्यम से भाषा के सैद्धांतिक पहलुओं तथा उसके परिवर्तन	
	की दिशाओं का बोध होगा।	
2	समकालीन साहित्य के विविध गद्य व पद्य रूपों के माध्यम से अपने युग का बोध होगा।	
3	साहित्य की विभिन्न विधाओं में रचनात्मक लेखन व संप्रेषण की क्षमता विकसित होगी।	
4	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक समझ विकसित होगी।	
5	साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।	
6	व्यक्तित्व विकास व जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता,	
	जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।	



	Course: Bachelor of Commerce
	Subject: CA/ASM/Pass Course
	Semester: I-VI
Web L	ink <u>https://design.cblu.ac.in/syllabi/</u>
	Programme Outcomes(POs)
	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,well trained professionals to meet the requirements.
	After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
	Capability of the students to make decisions at personal & professional level will increase after completion of this course.
	Students can independently start up their own Business.
	Students can get thorough knowledge of finance and commerce.
6.	knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
	$\mathbf{D}_{\mathbf{r}} = \mathbf{C}_{\mathbf{r}} = \mathbf{C}_{\mathbf{r}} + $
	Programme Specific Outcomes(POs)
•	The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
•	By goodness of the preparation they can turn into a Manager, Accountant, Managemen Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor Stock Agents, Government
•	employments and so on., Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC UPSC. As well as other coerces.
•	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
	Course Outcomes(COs)
	Illustrate the understanding of theoretical framework of accounting and be able to prepare financia statements of business organizations with additional items.
\triangleright	Prepare the financial statements for non-profit organization.
	Analyse and apply Accounting Standards according to requirements.
	Apply the knowledge and skills of accounting to prepare joint ventures.
\mathbf{A}	Exhibit the knowledge of the conceptual framework of business, commerce and management and analyse the approaches concerning management thought.
\triangleright	Apply the understanding of concepts of planning and organizing functions of management.
\triangleright	Assimilate and use the concepts of delegation, decentralization and staffing in organizations.
	Comprehend the concept and applications of leadership styles, and controlling practices in organizations.



- Exhibit proficiency in using different matrix methods in solving real life business and economic problems.
- Apply the understanding of the various type of interest and annuity in solving business related problems.



Co	ourse: Bachelor of Business Administration
	Semester: I-VI
Web Link <u>https://dri</u>	ive.google.com/file/d/1xqtINbbOcUtEK10D3UbO7fexKAAVqTmc/view
	Programme Outcomes(POs)
Soft skills and working	To comprehend, communicate and execute effectively and efficiently in
skills	all of their dealings
Leadership	To develop abilities to both lead and respect the views positions and
	beliefs of others and to plan and manage effectively.
Innovativeness and	To explore issues and problem that needs solutions with entrepreneurial
Entrepreneurship	orientation
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life
Adaptability and	Ready to understand and adapt the changing environment
Sociability	
Research and Analytical	To explore, analyses and provide solutions on emerging issues concerning
abilities	various fields including public policy.
Practical exposure and	Exposure to actual working environment leading to employability
Employability	
Environmental	In every action, dealing, service, and manifestation
Consciousness	
	Programme Specific Outcomes(POs)
Manifest executiv	e knowledge to handle varied business situations & tasks effectively to
solve business pro	-
 Identify & play effect 	ectively executive and supervisory roles in organizations.
 Understand & app 	bly ethical principles & make value based decisions as socially responsible
citizens.	
Communicate & w	ork in teams towards organizational goals.
	Course Outcomes(COs)
Become aware of e	entrepreneurship opportunities available in the society for the entrepreneur.
	s plan and carry out feasibility study.
-	tance of innovation and creativity in entrepreneurial ventures.
_	nmental framework for entrepreneurial development.
e	ble of SIDBI, MSME, SHGs in entrepreneurial development.
*	
	of effective goal setting, follow basic business etiquettes in corporate setting self-esteem and confidence.
Apply effective ti listening skills.	me management skills and enhance their reading, writing, speaking and
 Apply techniques manner. 	of self-motivation and motivation of others and adapt to changes in a better



- > Enhance their EQ and develop creative thinking.
- > Enhance their personality for focused behaviour.



	Course: Master of Arts
	Subject: Hindi
	Semester: I-IV
Web Link <u>https://dri</u>	ve.google.com/file/d/1EkCoktcXope7Hv-xhJFY9C79WRpTiTFy/view
	Programme Outcomes(POs)
Depth and Breadth of	A systematic understanding of knowledge within the discipline and in
Knowledge	related discipline/s, and a critical awareness of current problems and/or
	new insights informed by the forefront of their academic discipline.
Research and scholarship	a) A working comprehension of how established techniques of research
	and inquiry are used to create and interpret knowledge in the discipline.
	b) A treatment of complex issues and judgments based on established
	principles and techniques.
Level of application of	Competence in applying an existing body of knowledge in the critical
knowledge	analysis of a new question or of a specific problem or issue.
Awareness of limits of	Cognizance of the complexity of knowledge and of the potential
knowledge	contributions of other interpretations, methods, and disciplines
Professional	Acquiring and showing qualities and transferable skills necessary for
capacity/autonomy	employment: exercise of initiative, personal responsibility, intellectual
	independence, ethical behavior and academic integrity.
Level of Communication	Ability to communicate effectively in presenting ideas orally and in
Skills	writing (oral communication; written communication).
	Programme Specific Outcomes(POs)
1. भाषा के साम	ान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
2. साहित्य संसा	र व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक, संवेदनशील
दृष्टि व व्यकि	तत्व का विकास।

- 3. हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित होगी। विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
- 4. साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
- जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक जान।
- 6. भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अन्तर्निहित एकता के तत्त्वों का परिचय व पहचान होगी। देश व समाज की एकता-अंखडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्त्वों की पहचान।



- > इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
- > हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
- मध्यकाल के विभिन्न संप्रदायों की दार्शनिक पृष्ठभूमि का ज्ञान होगा।
- > भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
- > आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी।
- > आध्निक हिंदी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय।
- > आधुनिक हिंदी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध।
- > आधुनिक हिंदी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध।



	Course: Master of Science
	Subject: Mathematics
	Semester: I-IV
Web Link <u>https://</u>	drive.google.com/file/d/1Z-nBIGrVpzIq6bcCO7DdaJ6N_YcGlGap/view_
	Programme Outcomes(POs)
Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study
Research Aptitude	Capability to ask relevant/appropriate questions for identifying,
	formulating and analyzing the research problems and to draw conclusion from the analysis
Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
Problem Solving	Capability of applying knowledge to solve scientific and other problems
Individual and Team	Capable to learn and work effectively as an individual, and as a member
Work	or leader in diverse teams, in multidisciplinary settings.
Investigation of	Ability of critical thinking, analytical reasoning and research based
Problems	knowledge including design of experiments, analysis and interpretation of
	data to provide conclusions
Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices
Science and Society	Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific practices
Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating
6 6	in learning activities throughout life
Ethics	Capability to identify and apply ethical issues related to one's work, avoid
	unethical behaviour such as fabrication of data, committing plagiarism
	and unbiased truthful actions in all aspects of work
Project Management	Ability to demonstrate knowledge and understanding of the scientific
	principles and apply these to manage projects
	Programme Specific Outcomes(POs)

• Have deep understanding and knowledge in the core areas of Mathematics and demonstrate understanding and application of the concepts/theories/principles/ methods/ techniques in different areas of pure and applied Mathematics.

- Have capability to read and understand mathematical texts, demonstrate and communicate mathematical knowledge effectively and unambiguously through oral and/or written expressions and attain skills of computing/programming/using software tools/formulating models.
- Attain abilities of critical thinking, logical reasoning, investigating problems, analysis, problem solving, application of mathematical methods/techniques, disciplinary knowledge so as to develop skills to solve mathematical problems having applications in other disciplines and/or in the real world.

• Have strong foundation in basic and applied aspects of Mathematics so as to venture into research in different areas of mathematical sciences, jobs in scientific and various industrial sectors and/or teaching career in Mathematics.

- Understand concepts of normal subgroup, quotient group, isomorphism, automorphism, conjugacy, G-sets, normal series, composition series, solvable group, nilpotent group and refinement theorem.
- > Learn about cyclic decomposition, alternating group An , simplicity of An for n \geq 5, Sylow's theorem and its applications.
- Understand concepts of modules, submodules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
- Learn about similar linear transformation, triangular form, nilpotent transformation, primary decomposition theorem, Jordan form, rational canonical form and elementary divisors.
- Understand the concepts of limit, continuity, differentiation and integration for functions defined over a complex plane as well as for the elementary functions.
- Solve the complex integrals of various kinds through the applications of relevant theorems, formulae and power series expansions.
- Analyse the complex functions with singularities for zeroes and residues at poles and apply the results to solve the improper integrals.
- Solve complex improper integrals through the indentation, transformation/mapping of integration paths so as to avoid singularities and branch points/cuts.
- Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
- Learn about system of linear differential equations of first order and its preliminary concepts, homogeneous and non-homogeneous linear systems, existence and uniqueness theory, fundamental matrix, theory of adjoint systems, linear systems with constant coefficients and with periodic coefficients. Attain the skill to obtain fundamental matrix of such a given linear system to demonstrate problem solving.



	Course: Master of Commerce	
	Semester: I-IV	
Web Link <u>http</u>	s://drive.google.com/file/d/1DssU33j9eGpF8hQZDFBR4hvsMg7BbfSJ/view_	
	Programme Outcomes(POs)	
Soft Skills and Work		
Skills	all of their dealings	
Leadership	To develop abilities to both lead and respect the views, positions and	
T (* 1	beliefs of others and to plan and manage effectively.	
Innovativeness and	To explore issues and problems that needs solutions with entrepreneurial	
Entrepreneurship	orientation.	
Ethics and Values	To recognize, appreciate and follow ethical standards in all walks of life.	
Adaptability and Sociability	Ready to understand and adapt the changing environment.	
Research and Analyt		
abilities	various fields including public policy.	
Practical exposure ar	Exposure to actual working environment leading to employability.	
Employability		
Environmental	In every action, dealing, service and manifestation.	
Consciousness		
	Programme Specific Outcomes(POs)	
 To equip the students with the ability to analyse business environment, identify business opportunities and understand the operation of commercial activities. To develop the analytical abilities, managerial skills and capabilities for business decision making. To nurture the research aptitude and use the same for solving business problems in paradigr of business ethics and social responsibility. The inculcate the entrepreneurial capabilities and enhance employability. 		
	Course Outcomes(COs)	
\blacktriangleright Know the bas	sic concept of GST.	
 Understand the provisions of GST Act regarding levy and collection of GST. 		
\blacktriangleright Apply the pro-	ovisions for computation of GST.	
Understand the	ne Central Excise Laws and Custom Laws.	
> To develop an understanding of the conceptual framework of the Management Accounting.		
To provide the knowledge in the Management Accounting Techniques in business decision making.		
To provide understanding of the Tasks, Functions and Skills of strategic management and latest developments.		
\succ To aware the	> To aware the students about principles and functions of strategic management.	
To develop k Management	To develop knowledge about Business Finance and the background of Accounting and	



> To make students aware about the challenges and opportunities of Financial Management



	Course: Master of Science
	Subject: Computer Science
	Semester: I-IV
Web L	
	Programme Outcomes(POs)
1.	Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study.
2.	Research Aptitude Capability to ask relevant/appropriate questions for identifying, formulating and analyzing the research problems and to draw conclusion from the analysis.
3.	Communication Ability to communicate effectively on general and scientific topics with the scientific community and with society at large.
4.	Problem Solving Capability of applying knowledge to solve scientific and other problems
5.	Individual and Team Work Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.
6.	Investigation of Problems Ability of critical thinking, analytical reasoning and research based
	knowledge including design of experiments, analysis and interpretation of data to provide conclusions.
7.	Modern Tool usage Ability to use and learn techniques, skills and modern tools for scientific
	practices.
8.	Science and Society Ability to apply reasoning to assess the different issues related to society
	and the consequent responsibilities relevant to the professional scientific practices.
	Programme Specific Outcomes(POs)
•	Provide exposure to the hardware and software environment of computer systems along with a comprehensive strengthening of computational expertise in programming languages and open source platforms.
•	Enhance competency in designing and modeling software based applications with enrichment of proficiency in software design skills.
•	Strengthen technical skills and professional expertise in adopting contemporary trends and technological developments for the application of innovative approaches and propositions to real-world problem scenario.
•	Inspire pursuance of skillful expertise for careers in Commercial/ Government Sectors, Academics/ Consultancy/ Research and Development for technological innovations, and collateral fields related to Computer Science and Information Technology.
	Course Outcomes(COs)
\triangleright	Review the fundamental aspects of database along with EER model.
\triangleright	Get the practical exposure to SQL and PL/SQL to implement database management system in an organization.
\succ	Learn normalization and concurrency control techniques.
\succ	Acquire knowledge of different kind of emerging databases in real life scenario.
\succ	Understand the basic concepts and commands of Linux;
\triangleright	Understand the file management and process manipulation in Linux.



- Understand the C environment under Linux and do the system administration and communication in Linux.
- > Develop shell programs in Linux.
- > Understand the basic concepts of sets, function and relations.
- > Understand logics and counting principles.

