



**Government Arya Degree College Nurpur,
Kangra, Himachal Pradesh**

Programme Outcomes and Course Outcomes

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1. Bachelor of Arts (B.A.) with Economics

i. Programme Outcome

Program Outcome	
POs	On completion of the programme the students will be able to:
PO1	Evaluate working of markets and take optimal decision-making regarding allocation of resources and markets.
PO2	Identify key macroeconomic indicators and examine their contribution in economics change, growth and development.
PO3	discuss various strategies opted for development of different sectors like agriculture, industry, services, international trade.
PO4	critically assess generation and allocation of finances of government and budgets.
PO5	develop skills related to collection, analysis and interpretation of economic data and evaluate and recommend the policies for economic growth and stability.

ii. Programme Specific outcome

PSO	B.A. Economics Specific Outcomes
PSO1	Understand and analyse the fundamental concepts, principles and theories of economics and economic behaviour in practice
PSO2	Demonstrate an understanding of the basic functioning of the national and global economy; analyse historical and current events from an economic perspective.
PSO3	To understand competing economic paradigms and the historical development of the discipline.
PSO4	Apply the tools of economic analysis to examine the impact of various government policies, rules, and regulations.
PSO5	Create capacity to develop and evaluate economic models to solve various economic problems and suggest policy measures for the development of the economy.
PSO6	Learn the techniques of research methodology through practical research project work, developing the ability to conduct empirical studies for scientific social science research as well as to analyse and interpret them.
PSO7	Perform basic quantitative analysis using appropriate statistical tools and techniques.
PSO8	Provide valuable knowledge for making decisions in everyday life. It offers a tool with which to approach questions about the desirability of a particular financial investment opportunity, whether or not to attend college, the benefits and costs of alternative careers, and the likely impacts of public policies including universal education and a higher minimum wage.
PSO9	To equip the students for career and further study in economics.

iii. Course Outcome

Course Outcomes of B.A. Economics

Course Title	Course Code	Nature of Course and Year	COs	Course Outcome
Principles of Microeconomics –I	ECONA 101	Discipline Specific Core (DSC) First Year	CO1	This Course is designed to provide basic understanding of the behaviour of individual economic agents – Consumer, Producer.
			CO2	The students learn some basic principles of microeconomics, interactions of supply and demand, and the basic forces that determine equilibrium in a market economy.
			CO3	It will introduce the students to the basic ideas and tools that will be utilized throughout other courses of the degree programme.
			CO4	It introduces a framework for learning about consumer behaviour and analysing consumer decisions.
			CO5	It gives the foundation for economic analysis and problem solving.
			CO6	A thorough understanding on firm's production processes and optimal production decisions.
Principles of Microeconomics –II	ECONA 102	Discipline Specific Core (DSC) First Year	CO1	To apply the principles Micro economic analysis to the decision making of firms and market.
			CO2	Students are also exposed to business environment where there is competition among firms.
			CO3	It helps the students to develop skills in formulating business strategy in the context of market imperfections.
			CO4	The students can understand the basic theory of distribution and the source of income generation.
			CO5	Students are provided with the working and performance of firms in the market.
Principles of Macro Economics–I	ECONA 201	Discipline Specific Core (DSC) Second Year	CO1	This course aims to develop the broad conceptual frameworks which will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages.
			CO2	It will also allow them to critically evaluate various macroeconomic policies in terms of a coherent logical structure.

			CO3	This course is intended to provide students with the basic ideas in classical and Keynesian macroeconomics.
			CO4	With this course, students are expected to learn the relationships and ideas in the measurement of national income.
			CO5	The students will be able to demonstrate a good understanding of macroeconomic policies, concepts, and theories.
Principles of Macro Economics–II	ECONA 202	Discipline Specific Core (DSC) Second Year	CO1	It makes the students to understand Indian economic issues which are macroeconomic in nature.
			CO2	Helps to understand and compare a closed economy and open economy adjustment mechanism
			CO3	Policy makers all over the world use macroeconomic theories and related empirical results to frame policies. Similarly, business firms, use these theories and results to formulate their strategies.
			CO4	A sound understanding of macroeconomic principles and their applications is essential for students of Economics.
			CO5	Helps to understand the role of monetary and fiscal policies to address economic issues.
			CO6	Understand the open economy macroeconomics and know how to maintain internal and external balance.
Indian Economy	ECONA 301 / ECONA 314	Discipline Specific Elective (DSE) Group I / GENERIC ELECTIVE COURSES (GEC) Group II Third Year	CO1	This course will help students understand the key issues related to the Indian economy.
			CO2	It will broaden their horizons and enable them to analyse current economic policy thus improving their chances of getting employed, and be more effective, in PSOs of responsibility and decision making.
			CO3	The course also serves as the base for further study of sector specific policy discussion that is pursued in other courses in the programme. A student should be able to understand the role of economic policies in shaping and improving economic performance in agriculture, manufacturing, and services.
			CO4	The student would be able to understand the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress and well being.
			CO5	To expose the learners to some of the key issues facing the Indian economy both at national and regional levels.

			CO6	They are expected to develop analytical skills, interpret the economic events, and visualise the economic future of India.
			CO7	It provides the students with a critical thinking of the Indian economy so that they may be able to engage meaningfully in debates regarding the country's economy.
			CO8	It introduces the policy formulation techniques to the students.
			CO9	It helps the students to understand more about Indian economy in relation with policy implementation, planning, and social programmes.
			CO10	A thorough understanding on Indian Economic System and the structural adjustment programme and the transformation of the Indian economy.
			CO11	Helps to understand the pre reform and PSOt reform development experiences of the Indian economy.
Economic History of India 1857 – 1947	ECONA 302	Discipline Specific Elective (DSE) Group I Third Year	CO1	The course exPSOes the students to understanding the intricacies of India's economic, political, and social developments both in the past and present times.
			CO2	It develops analytical skills and will be useful in a variety of careers in academics, research, journalism, private sector, and government.
			CO3	To understand the British policy of exploitation of Indian economy.
			CO4	Helps students know how Indian economy was affected with the integration of Indian economy with world economy.
			CO5	Helps students to understand different perspectives on certain problems in modern Indian economic history.
Economy of Himachal Pradesh	ECONA 303 / ECONA 313	Discipline Specific Elective (DSE) Group I / Generic Elective Courses (GEC) Group I Third Year	CO1	To make the students understand the features of the economy of Himachal Pradesh and the emerging trends and issues of the economy of the state.
			CO2	To apply what is learnt from the other courses in addressing the problems of the local economy and society of Himachal Pradesh.
			CO3	Analyse the structural changes in the economy of Himachal Pradesh.
			CO4	Analyse Himachal Model of Development.
			CO5	To appreciate the regional issues with a policy perspective.
Basic Econometrics	ECONA 304	Discipline Specific	CO1	Students will learn to estimate linear models using ordinary least squares and make inferences about population parameters.

		Elective (DSE) Group I Third Year	CO2	They will also understand the biases created through mis-specified models, such as those that occur when variables are omitted.
			CO3	Students will learn the theoretical basis for techniques widely used in empirical research and consider their application in a wide range of problems.
			CO4	Handle models of econometrics and Mathematical Economics.
			CO5	Gain knowledge regarding hypothesis testing and model selection.
Development Economics	ECONA 305/ ECONA 315	Discipline Specific Elective (DSE) Group II / GENERIC ELECTIVE COURSES (GEC) Group II Third Year	CO1	This course enables the students to understand the theories and strategies of growth and development.
			CO2	It imparts knowledge about the issues relating to sustainable development and inclusive growth. The students are expected to develop an interrelated approach to resource use, the relationship between man and man and man and nature.
			CO3	Helps to understand the theoretical paradigms of economic development and develop conceptual clarity on the dimensions of development.
			CO4	This course is expected to provide students a comprehensive approach towards issues related to development and planning.
			CO5	It identifies the strategic factors in the development of the less developed countries.
International Economics	ECONA 306	Discipline Specific Elective (DSE) Group II Third Year	CO1	It provides a deep understanding about the broad principles and theories of international trade.
			CO2	It will also help the students to examine the impact of trade policies followed both at national and international level.
			CO3	Thorough understanding on International Economic System.
			CO4	Learn global economic issues and role of international institutions in tackling them.
			CO5	Understand the difference between internal and international economics and the importance of terms of trade in an economic development.
			CO6	Understand more about foreign exchange market and familiarize different foreign exchange transactions in the world and the Balance of Payments.
Mathematical Economics	ECONA 307	Discipline Specific Elective	CO1	To introduce the students to the most fundamental aspects of mathematical economics.
			CO2	Possess a solid grasp of essential mathematical tools required for the further studies in economic theory.

		(DSE) Group II	CO3	Use and explain the underlying principles, terminology, methods, techniques, and conventions used in the subject.
		Third Year	CO4	Develop an understanding of optimization techniques used in economic theory.
			CO5	Develop critical thinking, problem solving and analytical capabilities.
			CO6	Equip the students to apply various mathematical tools in economics and to handle models of Mathematical Economics.
Economic Systems	ECONA 308	Discipline Specific Elective (DSE) Group II	CO1	It is expected that on completion of the course, a student will have a working knowledge of the economic system in which he/she is able to make his/her living.
			CO2	It will help the student to apply economic reasoning to the analysis of selected contemporary economic problems.
			CO3	The student will be able to assess the contemporary economic system with reference to the theoretical constructs of capitalism and socialism.
		Third Year	CO4	The students become aware of the never-ending debate regarding the role of the State.
			CO5	The students learn about the price mechanism and planning as economic tools.
Statistical Methods – I	ECONA 203	Skill Enhancement Courses (SEC) Group I	CO1	At the end of the course, the student should understand the concept of random variables and be familiar with some commonly used discrete and continuous distributions of random variables.
			CO2	Acquire a fair degree of proficiency in comprehending statistical data, processing, and analysing it using descriptive statistical tools.
			CO3	To conduct exploratory data analysis using a range of Graphical, Tabular and Numerical tools.
		Second Year	CO4	They will be able to estimate population parameters based on random samples and test hypotheses about these parameters.
			CO5	This course is intended to provide students an introduction to quantities methods and tools that are used in the study of economics at undergraduate level.
Economics of Rural Development	ECONA 204	Skill Enhancement Courses (SEC) Group I	CO1	To explain the structure of rural economy and the causes of rural backwardness and rural poverty which are hinderances to rural development.
			CO2	Familiarizing the theories, concepts and practical cases of rurality, rural economics, and rural economies in the world with country-specific examples.
			CO3	The students have in-depth knowledge on rural employment generation and poverty alleviation schemes.

		Second Year	CO4	To gain the strategies to form Self Help Group for empowerment generation and rural credit as a solution to the age-old problem of rural indebtedness.
			CO5	To analyse the rural resource, like land utilisation, soils, crop pattern and other natural resources and also other rural industries.
			CO6	Understanding rural economics is in relation to rural/urban dynamism.
Statistical Methods – II	ECONA 205	Skill Enhancement Courses (SEC) Group I	CO1	Understand the relationship between two variables using concepts of correlation and regression and its use in identifying and predicting the variables.
			CO2	Develop an understanding of the index numbers and their utility in daily life and stock market.
			CO3	Become aware of the patterns revealed by the time series data and to use it to make predictions for the future.
		Second Year	CO4	The course is intended to familiarize the students with statistical tools and techniques and enable them to apply these tools in Economics.
			CO5	Students are expected to acquire statistical skills that are necessary for further study in most branches of economics.
Demography	ECONA 206	Skill Enhancement Courses (SEC) Group II	CO1	Understand the core social demographic variables (fertility, mortality, migration etc.), and how these variables influence population growth, composition, and structure.
			CO2	Identify appropriate sources of data, perform basic demographic analyses using various techniques and ensure their comparability across populations.
			CO3	Gain a sound command over the basic tenets of demography as well as key demographic issues in the context of a large and diverse country like India.
			CO4	Grasp a clear understanding of the inter-relationship between demography and the process of economic development.
		Second Year	CO5	Critically analyse the theoretical perspective of population studies.
			CO6	Evaluate the population policy and population profile of India.
			CO7	Able to understand the trends and patterns of urbanization in India.
Research Methodology	ECONA 309	Skill Enhancement Courses (SEC) Group III	CO1	Develop a conceptual understanding and foundation related to Research Methodology and its various approaches.
			CO2	Demonstrate comprehensive knowledge and understanding of all stages of the research process, including the important links between its various components.
			CO3	Students will gain an understanding of major methods of Social Science research and be able to utilise both quantitative and qualitative research techniques.

		Third Year	CO4	ProPSOe and distinguish appropriate research designs and methodologies to apply to a specific research project.
			CO5	Apply the understanding of feasibility and practicality of research methodology for a proPSOed project and develop a comprehensive research methodology for a research question.
			CO6	To enable the students in conducting research work and formulating research synopsis and report.
Public Finance	ECONA 310	Skill Enhancement Courses (SEC) Group III	CO1	Demonstrate a good understanding of the fiscal framework for taxing and spending and of fiscal policy principles.
			CO2	Analyse critically tax reforms and policy choices in developed and developing countries.
			CO3	Analyse how the government sets policies and how expenditure and tax policies affect individual behaviour.
			CO4	Analyse the interaction of state, local and federal governments in public finance.
		Third Year	CO5	Familiarize the students about the rationale for and role of government intervention in economic activities and how the government makes economic decisions.
			CO6	To introduce students to the public sector reform agenda with a focus on public finance issues.
			CO7	Assist the students to build their careers in government sector, policy analysis, business, and journalism.
Money & Banking	ECONA 311	Skill Enhancement Courses (SEC) Group IV	CO1	This course is designed to provide the students with a thorough understanding of the importance of money and banking in various economies. Understand the concept of money and its purPSOe as a medium of exchange. Understand the role money plays in our economy and the impact of inflation.
			CO2	The students are introduced to the role played by banks in modern monetary economies and financial markets, including issues arising from bank regulation, the role of banks in financial intermediation, and the significance of bank behaviour in monetary policy.
		Third Year	CO3	This course provides students the latest development in the field of banking and financial system. It also helps to familiarize the students with the changing scenario of Indian banking.
			CO4	Further, students are expected to master techniques relating to interest rate calculations, exchange rate determinations, and appropriate levels of the Money Supply.

			CO5	Upon successful completion of the course, the student should be able to display an understanding of news relating to monetary policies reported in such publications as The Economic Times. Students will also become familiarized with the structure and function of Commercial Banks, The Reserve Bank of India, and other financial institutions.
			CO6	Understand the impact of monetary and fiscal policy in managing the economy by directly impacting economic activity.
			CO7	This course should be a step in developing students' abilities to work in the financial or banking sector, along with giving all students an increased appreciation of how the economy works.
Project Work	ECONA 312	Skill Enhancement Courses (SEC) Group IV Third Year	CO1	Project work is meant for providing an opportunity to approach and study a problem in a systematic and scientific manner. It provides the students an opportunity to apply the tools they have studied and learn the art of conducting a study and presenting the report in a structured way.
			CO2	Develop research competency - the ability to conceptualize, formulate, design, and implement research for the generation of new knowledge, and to make informed judgments on complex issues, in a specialized field.
			CO3	Project work is completed by each student individually under the supervision of a teacher in the concerned department. In the long run, this will develop their capability to undertake a substantial research-based project independently.
			CO4	Demonstrate a capacity to communicate research results clearly, comprehensively, and persuasively in both written reports form as well as verbal forms like research report presentation.
			CO5	Learn to use library and other tools including e-resources to search for existing body of research relevant to their topic.
			CO6	Demonstrate an understanding and practice of research ethics and responsible conduct in research.
Environmental Economics	ECONA 316	GENERIC ELECTIVE COURSES (GEC) Group II	CO1	The course aims to introduce students to the main theoretical and empirical concepts in environmental economics, equip students with a thorough analytical grasp of environmental policy theory, ranging from externalities to international environmental agreements, and familiarise students with the main issues in environmental valuation and with the basic features of the environmental policy tools.

		Third Year	CO2	This course examines the economics behind environmental issues including economic assessment of environmental impacts; and problems and policies designed to address them.
			CO3	This course is intended to illustrate how the study of mainstream economics needs to be reoriented in the light of the natural environment of economy and economic sustainability. It also emphasizes the need of environmental protection and its role in economic development.
			CO4	This course imparts an awareness regarding the issues like environment conservation and climate change; gives an account on the role of human beings in preserving nature and nurture human values.
			CO5	Understand the causes and victims of environmental pollution like poverty, population explosion, and over-use of resources, careless or unscientific dump/management of wastes.
			CO6	To apply environmental economics for finding solutions to serious environmental problems (e.g. global warming, ozone depletion, air and water pollution) at different scales (global, regional and local).
			CO7	To understand the Global Environmental Issues and Economic Development; the linkage of Environment and Health; the linkage of Environment and Trade.

2. Bachelor of Arts (B.A.) with English

i. Programme Outcome

Program Outcomes	
PO1	The Program makes the students familiar with nuances and usage of language in formal and informal expressions of life.
PO2	The students get knowledge in fields of social sciences, performing arts, visual arts and literature and become responsible citizens of the society.
PO3	The students are acquainted with the social, political, economic, historical, and psychological facades pertaining to different situations.
PO4	The Program gives liberty to the students to choose their area of interest

ii. Programme Specific outcome

Programme Outcomes B.A. English	
POs	B.A. English Specific Outcomes
PO1	The course is designed in a way which introduces the student to not only love for literature but a critical sensibility.
PO2	Students must develop an ability to understand and accept a composite view of multiculturalism.
PO3	The programme inculcates in the students a knack for a deeper pursuit of knowledge and equipping oneself with advanced skills in the English language.
PO4	To develop basic skills and ability to listen, speak, read and write English.
PO5	Students acquire the necessary Communication Skills (verbal and non-verbal) to meet the global and local needs and enhance their employability.
PO6	To develop a taste for critical approach and awareness to latest trends in both language and literature.
PO7	To help students discover universality in themes, theories, literary movements between the East and the West, the Classical and Modern, the Original and the Translation.
PO8	To build vocabulary and practice rhetoric.
PO9	To polish creativity and professional aptitude.
PO10	The holistic plan is to make the learner not to follow the bandwagon but be in command of shaping his life as a whole.

PO11	An insight into world literature helps them acquire scholarly outlook and promises a satisfactory vocational opportunity.
PO12	Graduates will become sensitive towards gender issues, equality, environmental issues and sustainable development.
PO13	Nurture problem solving skills, thinking, and creativity through assignments.
PO14	Students learn about the tradition and culture of Himachal Pradesh.

iii. Course Outcome

Course Outcomes of B.A. English					
Sr. No.	Course Title	Course Code	Nature of Course and Year	COs	Course Outcome
1	English-1 Core English (Compulsory)	ENG CE 101	(Compulsory) BA/B.COM IST YEAR	CO1	The literary pieces incorporated in the course are to be used as tools to teach language through literature with emphasis on reading, listening, comprehension, summarizing, inference and discussion.
				CO2	Interdisciplinary Knowledge, Diverse Issues, and Global Consciousness
				CO3	To equip them to write stories and poems in different modes and promote critical thinking.
				CO4	To strengthen their knowledge of grammar topics included in course, to inculcate a habit to learn new concepts and strengthen vocabulary.
2	Literature-1 (Essays, Stories and Poems)	ENG DSC 102	BA IST YEAR DSC-1A English	CO1	Demonstrate, through discussion and writing, an understanding of significant cultural and societal issues presented in Indian & English literature.
				CO2	Students will be able to compare Indian issues of partition, migration, identity, dalit movements, Diaspora and gender with other nations
				CO3	Specify the figurative language used in poems, stories and essays.
				CO4	The course broadens the comprehension of the reader about social set-up and caste , race , gender discrimination prevalent in it. It discusses the place of an individual in such a social fabric.
				CO5	the student acquires an ability to analyse the variety of literary forms in term of styles, language, conventions, themes and social cultural diversities.

3	Literature-2 (Poems, Short-Stories and Essays)	ENG DSC 103/	BA IST YEAR DSC-1B English	CO1	The Student learns to identify the key features of Sufi and Bhakti traditions in India through prescribed Works By Bulleh Shah, Mahadeviyakka and Baul songs.
				CO2	The student learns about the development of Hindi language and its subsequent diversification into Hindi and Urdu. He also reads literary works in Hindi and Urdu in Translation.
				CO3	The students learns about the tribal traditions and tribal literature, its key features and also studies a few tribal poems to understand the concept better
				CO4	The student learn about Dalit literature and also understands social inequality through works by Dalit writers
				CO5	The student learns about feministic ideals in the Indian context through prescribed literary works.
				CO6	The student learns about literature written in English by Indian writers and the difference between regional Indian literature and Indian writing in English
4	Writing Skills	ENG AECC 104	AECC-2 B.SC/B.COM IST YEAR	CO1	To equip them to write paragraph/reports/reviews in different modes and promote critical thinking.
				CO2	To develop and improve their analytical abilities and vocabulary.
				CO3	To make them able to think and write coherently and clearly.
				CO4	Should be able to use exact, correct, and proper words or terms along with error free writing skills.
5	English-2 Core English	ENG CE 201	(Compulsory)B.A./ B.COM II YEAR	CO1	Introduce students to genre of essays from both the east and the west, opening two worlds of different civilisation and establishing universality in them.
				CO2	Introduce students to genre of poetry dealing with human values, environmental consciousness and about the ultimate goal of human life.
				CO3	The Grammar section focusses on composition aspect as a step ahead in their learning.
6	British Literature (Play and Novel)	ENG DSC 202	DSC- 1C B.A. II YEAR	CO1	When students study Literature, they learn to appreciate words and their power. They travel to other realms and times through the texts they read. They understand about their own culture and others'. They learn to empathise with characters, to feel their joys and pain.

				CO2	To facilitate exploration of values attitude and behaviour and creation of roles and relationships so that the learner gains a profound understanding through Imaginative experience.
				CO3	It broadens their horizons
				CO4	It enables them to develop transferable skills.
7	Literary Cross Currents	ENG DSC 203	DSC-1D B.A. II YEAR	CO1	Poetry helps the students in understanding different perspectives. Teaching and learning from poetry can help students respect and understand the viewpoints of people across the globe.
				CO2	Introduces students to genre of poetry dealing with human values, environmental consciousness, gender sensitization and moral righteousness.
				CO3	To sensitize the students towards the various perspectives and plight of the underprivileged in Indian society and to clarify the concept of gender, class, caste and identity prevalent in the society through the autobiography "Joothan"
				CO4	Gender sensitization through the play "Silence: The court is in Session".
8	AEEC/SEC - 1: Creative Writing, Book and Media Reviews	ENG AEEC/ SEC 204	B.A. II YEAR	CO1	To enable the student to build vocabulary and knowledge of literary terminology
				CO2	Poem, story and novel revolve around the theme of Nature, human emotions and feminism/ gender sensitization.
				CO3	To develop an ability to recognize text's elements such as style, form, images, figure of speeches, connotations and references.
				CO4	To make the students able to write Book, Film and TV Programme Reviews
9	Translation Studies and Principles of Translation	ENG AEEC/ SEC 205	AEEC/SEC-2 B.A. II YEAR	CO1	The student learns and understands the basic process of translation and the key terms associated with translation along with the purpose of translation.
				CO2	The students understands the different ways in which translators approach the text to be translated.
				CO3	The students learns about the methods of translation based on difference and equivalence. He also understands the difference between translation, interpretation and adaption.

				CO4	The students learn about the problems which translators face while translating literary works.
				CO5	Through study of translated works, the student understands the principles of translation and how they actually work.
				CO6	The student gets a basic idea about translation theories in India which have been an ancient practice. He also understands key terms like Rasa,Dhwani, Auchitya, Anuwad,Bhashantar and Rupantar.
10	Technical Writing	ENG AEEC/ SEC 301	AEEC/SEC-3 B. A. III YEAR	CO1	Students learn about the Basic Research Methodology.
				CO2	To make the students able to analyse the data (quantitative and qualitative)
				CO3	Students learn to read and interpret the pie charts and Bar Graphs.
				CO4	Demonstrate an understanding and practice of research ethics and responsible conduct in research.
11	Business Communication	ENG AEEC/ SEC 302	AEEC/SEC-4 B. A. III YEAR	CO1	To be able to use proper format for different kinds of written business communications
				CO2	To be able to write coherent, clear, logical and correct letters, memo, reports etc.
				CO3	The students strengthen their knowledge in differentiating miscommunication from effective communication.
12	Soft Skills	ENG DSE 303	DSE –1A B. A. III YEAR	CO1	Students develop and improve their soft skills such as they should be able to communicate their ideas, suggestions, views and opinions clearly and logically.
				CO2	Students learn about the listening skills, team work, emotional intelligence.
				CO3	Students learn the Interview skills, self evaluation through SWOT, non verbal communications and etiquettes.
				CO4	It also teaches professional ethics
				CO5	Soft skills brazens and sharpens students according to the needs of the work environment. It provides them that extra edge which makes them strong competitors in the business as well as service sector.

				CO6	Nurture problem solving skills, thinking, and creativity through assignments.
13	Academic Writing and Composition	ENG DSE 304	DSE-1B B. A. III YEAR	CO1	The students learn about the four types of academic writing.
				CO2	The student Learns about the features and conventions of academic writing.
				CO3	The student learns about general mistakes which writers encounter and commit while attempting research papers etc. and learn how to avoid them.
				CO4	They learn and practice exercises in proper punctuation, subject-verb agreement, use of apostrophe, common abbreviations, common grammatical mistakes and Learns to rectify them while writing academic papers.
				CO5	The students Learn about the process of academic writing step- by- step. They learn to draft and edit.
				CO6	The student Learns to employ critical thinking in their everyday writing and to write proper academic research papers, proposals, reports etc.
14	Literature from Himachal	ENG GE 305	GE-1 B. A. III YEAR	CO1	Students get an opportunity to study literature from Himachal Pradesh.
				CO2	Students get to know about the concept of administrative existence of Himachal Pradesh, tradition and culture alongwith economic and social know how of people of himachal.
				CO3	Students get familiar with the general knowledge of Himachal Pradesh , customs, dresses, foods across the state.
15	Contemporary India: Women and Empowerment	ENG GE 306	GE-1 B. A. III YEAR	CO1	Understanding of the key Concepts: Sex and Gender, Socialization, Discrimination - Gendered and Sexual, Stereotyping, Feminism, Patriarchy, Femininities and Masculinities and Transgenders.
				CO2	Students study Women's Role in social affairs.

3. Bachelor of Arts (B.A.) with Geography

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students
PO1	will have a general understanding of physical geographic processes, the global distribution of landforms and ecosystems, and the role of the physical environment on human populations.
PO2	will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment.
PO3	will have a general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.
PO4	will have a general understanding of the various theoretical and methodological approaches in both physical and human geography and be able to develop research questions and critically analyse both qualitative and quantitative data to answer those questions.

ii. Programme Specific outcome

PSO	Geography Specific Outcomes
PSO1	Students get knowledge about various concepts of Geomorphology, Climatology and Oceanography along with basic of cartography, map making and map reading, scales map project on and data handling.
PSO2	Students get knowledge about various aspects of human- Geography like Human races, languages, religions, rural and urban settlements distribution and environment ecosystem, biomes, Environmental problems and environmental policy.
PSO3	Students get knowledge about remote sensing types, advantages and application of remote knowledge of regional Planning, demarcation of planning regions and with special reference to case studies of DVC and ITDP is imparted.

PSO4	Students get knowledge about physiographic divisions of India, resource base of India, climate and soils of India. Students get acquainted with field techniques, formulation of questionnaire and conduct of field survey and preparation of field report.
PSO5	Students get knowledge about geographic information system, types of data structures and other aspects of GIS.
PSO6	Students get knowledge of disasters and their types along with their management and students get knowledge about basic concepts of sustainability and development in the global context.

iii. Course Outcome

S.No.	Course Title	Course Code	Class	CO's	Course Outcome
1	Physical Geography	GEOGP 101CC	B.A 1st Year	CO1	Knowledge regarding introduction of Solar system and theories regarding origin of earth like tidal hypothesis and big bang theory and rocks is imparted to students.
				CO2	Students are introduced with the concepts of internal structure of the earth, theory of plate tectonics, weathering, and cycle of erosion by Davis.
				CO3	Students learn about composition and structure of atmosphere, heat balance, Pressure and wind system, tropical cyclones, Monsoons and Koppen's climatic classification.
				CO4	Students get knowledge about oceans, Tides, oceanic currents, and Relief Features of Pacific Ocean.
2	Gen. cartography	GEOGP 102CC	B.A 1st Year	CO1	Students are acquainted with the basic concepts of classification of maps and significance of maps.
				CO2	Students get knowledge about meaning of scale types of scales- like Plain, Comparative and diagonal scale.

				CO3	Map projections are basics for making maps. Students get knowledge about making of various types of map projection cylindrical, Zenithally, and conical and need, choice of map protection.
				CO4	Students learn about representation of data by Bar and line Grapy and know making dot map, choropleth map.
3	Human Geography	GEOGP 201CC	B.A 2nd Year	CO1	Students get knowledge of basic concepts of Human Geography, Nature, Scope, and relevance of human Geography.
				CO2	Students are acquainted with the world population distribution patterns, density and distribution, Growth of population and demographic transition theory.
				CO3	Knowledge regarding human races and their world distribution is imparted. Major religions and major languages of the world and their distribution is studied.
				CO4	Students know about the rural and Urban settlements meaning, Origin, Classification of urban settlements and trends and patters of world distribution are studied.
4	Environmental Geography	GEOGP 202CC	B.A 2nd Year	CO1	Students are introduced with the definition and scope of environmental Geography meaning and components of environment are explained to them. They get knowledge of Ecosystem- concepts, components, and functions.
				CO2	Human Environment relationship is taught to them with the concepts of Environmentalism and Possibilism major biomes mountain and desert region are studies.
				CO3	Students are taught about various types of pollution, Air, Water, Pollution. Causes of Pollution, impact and management. Environmental problems and Biodiversity loss is also taught.
				CO4	Students get knowledge about 'Environmental Protection Act, 1982. Environmental policy of India (2006) and Chipko Movement.
5	Regional Planning and Development	GeogP 203SEC	B.A 2nd Year	CO1	Students are introduced with the meaning of Regions, Regional Planning and Development Characteristics of regions and Delineation of Planning regions.

				CO2	Students get knowledge about regionalization with case study of Himachal Pradesh (Physical and Cultural aspects).
				CO3	Knowledge of growth pole theory and core Periphery model is imparted.
				CO4	Regional Development Initiatives are studied with case studies of integrated tribal Development program (ITBP) and DVC.
6	Remote Sensing and GPS	GeogP 204SEC	B.A 2nd Year	CO1	Students get knowledge about meaning of remote sensing, Platforms and types of remote Sensing.
				CO2	knowledge of Aerial photography- definition, types, principles and geometry is given to them.
				CO3	Students get- knowledge about meaning of satellite remote sensing, principles, EMR interaction with atmosphere and earth surface- Landsat and IRS satellites and sensors are also taught.
				CO4	Students get knowledge about visual interpretation of satellite imagery and aerial photographs. Fundamentals of Global Positioning system are taught along with its uses.
7	Geographic Information System	GeogP 301 SEC	B.A 3rd Year	CO1	Students get knowledge about meaning of GIS, Scope of GIS, Components of GIS and History of GIS.
				CO2	Students get knowledge about data structures spatial and non- spatial, vector and raster data structures.
				CO3	Concept of georeferencing is taught along with editing and attribute data integration.
				CO4	Students get knowledge about georeferencing sub setting , thematic mapping and extraction of land use layers of any area.
8	Field Techniques and survey based project - Report	GeogP 302 SEC.	B.A 3rd Year	CO1	Meaning of field work role, value and ethics of field work are taught. Defining the field and case study Rural/ urban, Physical/Human Environmental) is taught.
				CO2	Field Techniques- observation- participant and Non- Participant along with merits and demerits are taught.

				CO3	Students get knowledge about questionnaire- open closed/ structured/ Non-Structured. Students get knowledge about interview with special focus on focused Group Discussions.
				CO4	Students get knowledge about designing of field report- Aims and objective, methodology, analysis interpretation and writing the Report.
9	Geography of India	Geog P 303 IDSE	B.A 3rd Year	CO1	Students get knowledge about major physiographic regions of India. They get acquainted with the concepts of climate of India and soils of India.
				CO2	Students get knowledge about population size growth since 1901 concepts of population density distribution literacy and sex ratio are also taught.
				CO3	Students get knowledge about rural and urban settlements their types and patterns.
				CO4	Knowledge is imparted to students regarding power and mineral resources, agriculture and cotton textile industry and iron and steel industry.
10	Disaster Management	Geog P 304 IDSE	B.A 3rd Year	CO1	Students get knowledge about disasters, hazards, Vulnerability and types of disasters.
				CO2	Knowledge of disasters occurring in India like landslide, earthquake and Cyclones is Imparted.
				CO3	Students get Knowledge regarding human induced disasters like forest fires, Road accidents.
				CO4	Response and mitigation to disasters is also taught NDMA, NIDM, along with community based disaster management and do's and don'ts during disasters are taught to students.
11	Disaster Risk Reduction	Geog P 305 GEI	B.A 3rd Year	CO1	Students get knowledge about disasters, hazards, risk, vulnerability.
				CO2	Knowledge regarding various types of disasters causes, impact and distribution is given. Floods, earthquakes and cyclones are also discussed.
				CO3	Students get knowledge about human induced disasters, causes, impact distribution and mapping.
				CO4	Response and mitigation to disasters is also taught NDMA, NIDM along with community based disaster management and Do's and Don'ts during disasters are taught to students.

12	Sustainability and Development	Geog P 306 GE2	B.A 3rd Year	CO1	Students get knowledge about sustainability and development concepts and components.
				CO2	Knowledge regarding Millenium development goals is imparted, national strategies and international experiences are also discussed.
				CO3	Students get knowledge of role of higher education in achieving sustainability, policies and global Co- operation for climate change are discussed.
				CO4	Students get knowledge of Rio+20, Financing for sustainable development, national environmental policy.

4. Bachelor of Arts (B.A.) with Hindi

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able:
PO1	To make the students competent in various walks of life
PO2	To make the students job ready and enhance their employability.
PO3	To make the students aware of and responsible towards gender, religion, and class equality
PO4	To enhance critical thinking by making them participate in social activities and imbibe human values among them.
PO5	To encourage the students to participate in research at different levels through projects, interviews, surveys and field visits.

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	To understand the basic concepts and origin of Hindi.
PSO2	To understand various aspects of Hindi Literature with a process to search new methods and give new directions.
PSO3	To know about the roots of Hindi Literature and its perspective and methods.
PSO4	Elaborating and understanding philosophical methods of Hindi Literature.
PSO5	Evaluating the concept of Hindi from past to present and to study the society closely through Literature.
PSO6	To make students understand the Literature in broader areas than merely confined to the subject.
PSO7	To make the students understand the importance of Hindi in the contemporary world.
PSO8	To introduce students to the real world situation with the help of poems and stories written by various poets and writers.

iii. Course Outcome

S.No.	Course Title	Course Code	Class	COs	Course Outcome
1	Prayojanmulak Hindi (compulsory)	HIND101	B.A/B.Com 1st Year	CO1	To understand the basic concepts of Hindi grammar and various forms of functional Hindi.
				CO2	Understanding the meaning, concept and importance of Functional Hindi.
				CO3	Understanding various forms of Functional Hindi according to its area of application.
2	Hindi sahitya ka Etihaas DSC-1A	HIND102	B.A 1st Year	CO1	Understanding the origin of Hindi language and its literature.
				CO2	Identifying the dialects of Hindi language family.
				CO3	Analysing the development of Khariboli Hindi.
3	Madhyakalin Hindi kavita DSC-1B	HIND103	B.A 1st Year	CO1	Understanding the role played by the poets of Bhakti cult in literature and society.
				CO2	Describing the progressive nature of sant Kabir and his writings.
				CO3	Understanding the vision of Mira in context of her Krishna Bhakti poetry.
4	Hindi bhasha or sampreshan	HIND104	B.A/B.Com 1st Year	CO1	Students will be well versed in hindi grammar use of noun, pronoun, verb, proverb, tenses, adjectives, antonyms, synonyms, sentence formation.
				CO2	Students is capable to write etters and essays in Hindi by using various grammatical tools they studied.
				CO3	Students will be Imporve the reading power of language.
				CO1	Students will be familiar with the history of devnagri lipi the various

5	Rachnapunj 201 (Compulsory)	HIND201	B.A/B.Co m 2nd Year		dialects ,originated from devnagri lipi.
				CO2	The scientific and psychological improvements in the language, students will also be competent in typing in hindi by using various fonts and styles available in MS worlds.
				CO3	Through prose and poetry students learn the human values and practice it in day to day life.

6	Aadhunik Hindi Kavita DSC- 1C	HIND202	B.A 2nd Year	CO1	Students will be able to understand and identify the alankaar raas, chhand and language.
				CO2	students will be familiar with modern hindi poets.
				CO3	To describe the poem of “Chayawadi writers”: Agey, Maithli Sharan Gupt , Nirala and Nagarjun.
7	Karyalyi Hindi SEC-1	HIND204	B.A 2nd Year	CO1	Students will come to know about the use of Hindi in official work.
				CO2	Students will identify the official hindi and will be familiar with drafting noting in hindi language.
				CO3	Students will come to know about the use of Hindi in official work.
8	Anuvad Vigyan SEC-2	HIND206	B.A 2nd Year	CO1	Students will come to know the Indian concept of translation.
				CO2	Students will learn and understand the translation.
				CO3	Role of translation, principle, methods types of translation.
				CO4	Students will come to know the Indian concept of translation.
9	Rang Aalekh SEC-3	HIND301	B.A 3rd Year	CO1	To equip students with the concept of drama and acting.
				CO2	Student will be familiar with Indian plays written by Indian writers, able to understand and identify the writing styles of these playwrights.
10	Lok Sahitya DSC- 1A	HIND305	B.A 3rd Year	CO1	To know the concept of folk literature and correlation between folk literature and other branches.
				CO2	Students will able know the value and importance of folk literature in hindi.
				CO3	Students will able to understand the folk idioms and phrases there meaning and use in hindi literature.

11	Aadhunik Bhartiya Sahitya	HIND307	B.A 3rd Year	CO1	Students will be made familiar with the changes in Indian Hindi literature PSOt independence ,the various novels and plays written during pre- independence and their impact on modern India.
12	Samachar Sankalan Aur Lekhan SEC-4	HIND304	B.A 3rd Year	CO1	To equip students with the fundamentals of journalism, principles sources formation and all the basic techniques required to make an emphatic news.

				CO2	Students will come to know the fundamentals of journalism by the means of newspapers.
				CO3	Students will learn the principles, sources, formation and all the basic techniques required to make an authentic news.
13	Chhayavadotar Hindi Kavita DSE-1E	HIND306	B.A 3rd Year	CO1	To familiarize students with Alankaar , chhand and language.
				CO2	Students will be familiar with modern Chhayavadotar hindi kavita.
14	Sarjnatmak Lekhan Ke Vivedh Kshetra GE-2	HIND308	B.A 3rd Year	CO1	Students will come to know the creative works related to literature.
				CO2	All those compositions are called creative writing, which a person does according to his mind-brain, intellectual capacity, poetry is one in this sequence.

5. Bachelor of Arts (B.A.) with History

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO1	Describe the social, economic, political, religious and cultural interests in a comprehensive study of the past.
PO2	Acquire knowledge of historical texts, sources and how historians interpret past.
PO3	Understand the basic themes, concepts, chronology and the Scope of Indian History
PO4	Compare and contrast the major dynasties, art, architecture and literature of Karnataka.
PO5	Explain the positive and negative impacts of travel and tourism and the importance of sustainability.
PO6	Compare and contrast the history of the countries other than India (China, Japan and Europe)
PO7	Develop research skills, write papers and demonstrate the ability to interpret on their own.
PO8	Prepare for various types of Competitive Examinations
PO9	Promote nation building activities, peace, international understanding, and to restore fruitful relations.

ii. Programme Specific outcome

Programme Specific Outcomes	
PSO	
PSO1	Understand the basic themes, concepts, chronology and the scope of Indian History.
PSO2	Aquaint with range of issues related to Indian History.
PSO3	Understand the history of countries other than India with comparative approach.
PSO4	Think and argue historically and critically in writing and discussion.
PSO5	Prepare for various types of competitive examinations.
PSO6	Critically recognize the Social, Political, Economic and Cultural aspects of history.

iii. Course Outcome

S.No.	Course Title	Course Code	Nature of Course and Year	Co's	Course Outcome
1	History of India from the Earliest time up to 300CE	HIST(A) 101	Discipline Specific Core (DSC) B.A 1st Year	CO1	Have a fair knowledge about the sources of ancient India.
				CO2	Know about the developments and achievements of man in the stone age.
				CO3	Understand the glory of Indian history in the age of Harrappa civilization.
				CO4	Familiarized with history of vedic period.
				CO5	Understand the Jainism and Buddhism.
				CO6	Perceive influence of political support on religion.
				CO7	Know about the Mauryan empire.
				CO8	Understand the history of Satvahanas, Shungas and Kushanas.
				CO9	Know about the Sangam age.
2	History of India from 300 AD to 1206	HIST(A)102	Discipline Specific Core (DSC) B.A 1st Year	CO1	Students will understand the history of Guptas and overall development during the reign of Guptas.
				CO2	Understand the history of Pallavas, Chalukyas, Cholas, Rastrakutas, Palas and Pratyaharas.
				CO3	Comprehend the history of Harshavardhan.
				CO4	About the origin of Rajput's.
				CO5	Understand the emergence of feudal system in Indian Society.
				CO6	Invasions of Arabs and Turks and consequences of 2nd battle of Train and foundation of Muslim rule in India.
3	History of India from 1206 to 1707 AD	HIST(A)203	Discipline Specific Core (DSC)	CO1	Students will be understanding the establishment, expansion, and consolidation of Delhi Settlement.
				CO2	Understand administration, Polity, Society and Religions policy of Sultans.
				CO3	Understand the rise of Vijayanagar empire in the south.

			B.A 2nd Year	CO4	Comprehend the Bhakti and Sufi movement and their impact on the policies of the Medieval ruler and society.
				CO5	Understand the condition of India on the eve of Babur's invasions.
				CO6	Grasp the territorial expansion of Mughal empire.
				CO7	Understand the emergence and achievement of Sher Shah.
				CO8	Understand the Mughal concept of divine right theory of kingship and administration of the Mughals and basic features of Mondadori, Jaghirdar system.
				CO9	Comprehend the rise of Marathas and their polity.
4	History of India from 1707 to 1950	HIST(A) 204	Discipline Specific Core (DSC) B.A 2nd Year	CO1	Students will be able to acquaint with the establishment of the rule of East India company.
				CO2	Understand the policies adopted by the company to expand and consolidate its rule in India.
				CO3	Apprehend the various revolts especially the revolt of 1857 against the East India company.
				CO4	Understand the events or endurances which led to the growth of nationalism in India.
				CO5	Acquaint himself with the major events of the freedom struggle under the leadership of Mahatma Gandhi.
				CO6	Know the concept of communalism and the causes and effects of the partition of India.
5	Historical Tourism	HIST(A) 213	Skill Enhancement Courses (SEC) B.A 2nd Year	CO1	Students will understand meaning and importance of Historical Heritage.
				CO2	Acquaint with the importance of tourism, the role of tour operators and tourist guides in tourism.
				CO3	Understand the importance of built heritage like Stupas, Temples, Forts and Monuments as the main attractions of tourism.
				CO4	Acquaint with the tourist destinations of Himachal Pradesh ie Shimla, Manali, Chamba and Kullu.

				CO5	Understand like tourism as booster of economy of country and the state.
6	Understanding Heritage	HIST(A) 214	Skill Enhancement Courses (SEC) B.A 2nd Year	CO1	After completion of the course student will understand the meaning of antiquity, tangible and intangible heritage.
				CO2	Will understand the heritage legislations i.e. national and international conventions and Acts.
				CO3	Students will have an understanding of various issues related of heritage management
7	An introduction to Archaeology	HIST(A) 215	Skill Enhancement Courses (SEC)-III B.A 2nd Year	CO1	Students will understand the basics of archelogy and basic techniques in archaeological study.
				CO2	Understand the method of surveying and techniques of excavation.
				CO3	Will understand the report writing on the findings, and visits of any museum, archives or as chorological sites.
8	Crafts and Artisans: Living Traditions	HIST(A) 216	Skill Enhancement Courses (SEC) B.A 2nd Year	CO1	After completing the course students will have a familiarity with different Indian Crafts like stone carving, Paintings, Metal crafts, Wood works and basketry, Textiles and carpet weaving.
				CO2	Many professional skills could be developed among the students.
9	Modern and Contemporary World History (1871-1919)	HIST(A)305	Discipline Specific Elective (DSE) B.A 3rd Year	CO1	After completion of the course students have understood relations between modernity and nationalism and its implications.
				CO2	The rise of unified Italy and Germany and beginning of Bismarkian diplomacy.
				CO3	Students have understood the process of colonialism in different part of the world and imperialistic revelry among the states.
				CO4	Understand the militarisation and division of the world in two rival groups which lead the world ultimately towards the First World War.

10	Issues in world History-I (The twentieth Century)	HIST(A) 306	Discipline Specific Elective (DSE)-1B B.A 3rd Year	CO1	After completion the course students will apprise by the rise of capitalism and industrialization and its impact on the world economy and society.
				CO2	Students will be acquainted with the causes and results of 1st world war and Paris peace settlement.
				CO3	will understand the causes and results of Russian revolution of 1917 and its impact on Russia and the world.
				CO4	will familiarized with the economic instability in Europe after world war and great Depression of 1929.
				CO5	will understand the rise of dictatorship in European countries i.e. Italy and Germany which lead the world towards 2nd world war.
11	Modern and Contemporary World History II 1919-1992	HIST(A) 307	Discipline Specific Elective (DSE) B.A 3rd Year	CO1	Students have understood the consequence of the war and quest for peace through league of nation.
				CO2	Understand the outbreak of great economic depression and rise of the dictatorship which ended the peace and beginning of 2nd world war.
				CO3	Understand the PSOt war development of social, political and economic scenarios, decolonisation and the emergence of the third world.
				CO4	Acquaint with the origin of cold war and changing world Political Scenario.
				CO5	Students have understood the necessity of universal peace and brotherhood.
12	Issues in world History-II (The Twentieth Century)	HIST(A) 308	Discipline Specific Elective (DSE)-1B B.A 3rd Year	CO1	After completion of the course the students will be able to know about decolonization and national movements in South Asia and Middle East.
				CO2	Will understand about the Cold war and its impact on world politics and division of the world in two Blocks.
				CO3	Will understand about the economic growth and disparities between developed and Third World.

				CO4	Will learn about the students' movements, Feminist and ecological movements, Iranian Revolution and question of human rights.
				CO5	Will learn about modernity and socio-Economic changes i.e., changes in agrarian production, growth of urbanization, expansion of education and automation of industry.
13	Women in Indian History	HIST (A) 309	GENERIC ELECTIVE (GE)-1 B.A 3rd Year	CO1	After completion of course students will be able to understand the concept of gender and patriarchy.
				CO2	They can examine the Position of women in ancient Brahminical and non-Brahminical texts.
				CO3	They will be able to understand the decline in the Position of women in medieval period.
				CO4	They will identify the renowned women's and their contribution to Indian History.
				CO5	They will understand and evaluate the social reform movements led by the women in Indian history and contribution of Gandhiji in women upliftment.
14	Social Religious Reform Movements in India (19th and 20th centuries)	HIST(A) 310	GENERIC ELECTIVE (GE) B.A 3rd Year	CO1	Students will understand the social cultural conditions of India in the 18th & 19th centuries.
				CO2	Understand the causes and impact of the socio-religious movement in India.
15	Environmental Issues in India	HIST (A) 311	GENERIC ELECTIVE (GE)-II B.A 3rd Year	CO1	After completion of course the students will learn that how the natural world work and integration of human with nature.
				CO2	Will learn the Geography, Ecology, and Indian Cultures in the pre-colonial India.
				CO3	Will learn colonial policy of encroachment and its threat to Indian ecology and cultures.
				CO4	Will learn the peasants, tribal and pastoralists rebellions against colonial power.
				CO5	Students will learn how the human find ways to deal with environmental problems and live more sustainably.
16		HIST(A)312		CO1	Understand the geography of Himachal.

	History of Himachal Pradesh (1815-1972)		GENERIC ELECTIVE (GE) B.A 3rd Year	CO2	Understand the history of Himachal Pradesh in ancient and medieval period.
				CO3	Will understand the Gorkha invasion on Himachal.
				CO4	Will comprehend the Anglo- Gorkha war.
				CO5	Understand the birth of Himachal Pradesh and its journey upto the complete statehood in 1972.
17	Indian History and culture	HIST(A)317	Skill Enhancement Courses (SEC) B.A 3rd Year	CO1	Students will understand the richness of Indian culture during the ancient period and changes in after math.
				CO2	Understand the social inequalities and gender biasedness.
				CO3	Understand rich cultural heritage and unity in diversity in culture through fairs and festivals of India.
18	Museums and Archives	HIST(A) 318	Skill Enhancement Courses (SEC)	CO1	Students will learn what museums and archives are.
				CO2	Will understand what material archives and museums have.
				CO3	Will learn basic aspects of the history of archival science and museology.
				CO4	Will learn the collection documentation and preservation of archival material.
				CO5	Will learn history and development of Indian Archives and museums.
				CO6	Will learn digitization of archives and museums.
19	Introduction to Indian Art	HIST(A)319	Skill Enhancement Courses (SEC) B.A 3rd Year	CO1	Students will understand characteristics and features of Indian art, types of art and concept of art.
				CO2	Understand the styles of rock cut temple architecture of Masrur and Pahari School of painting.
20	Understanding Popular Culture	HIST(A) 320	Skill Enhancement Courses (SEC) B.A 3rd Year	CO1	After completion of course students will learn the history of popular cultures.
				CO2	Will understand the themes of visual and performing arts.
				CO3	Will understand the history of Indian cinema and television and their roll in expression of popular cultures.

6. Bachelor of Arts (B.A.) with Mathematics

i. Programme Outcome

Programme Outcome	
POs	On completion of the programme:
PO1	The learner will be able to relate the concept underlying standard applications of Mathematics, Physics and Statistics
PO2	The learner will have an understanding on basic pure and applied Mathematics and be able to formulate the Mathematical arguments in logical manner
PO3	They can be able to illustrate Mathematical concepts effectively by oral, written, computing and graphical means
PO4	The learner will make use of the theories of Mathematics and their applications in real world problems
PO5	The learners can be able to identify the complex physical problems and apply the mathematical techniques to solve them

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	Understand basic concepts and theory of mathematics and physics, are able to apply them in various fields, and relate them to principles of Maharishi Vedic Science.
PSO2	Appreciate the full range of mathematics and physics from the deepest foundational levels to real-world applications in areas such as physics, engineering, business, art, and sustainable living.
PSO3	Have a working knowledge of the elements of single and multivariable calculus, linear algebra, and ordinary differential equations.
PSO4	Have a working knowledge of introductory classical mechanics, fluids, waves, electricity and magnetism, modern physics, and quantum mechanics.

iii. Course Outcome

S.No .	Course Title	Course Code	Nature of Course and Year	CO s	Course Outcome
1	Differential Calculus	MATH 101TH	B.A/ B.SC 1st Year	CO1	Calculate the limit and examine the continuity of a function at point and different indeterminate forms of limit.
				CO2	Understand the consequences of various mean value theorems for differentiable function.
				CO3	Understand the concept of maximum and minimum behavior of function of two variables.
2	Differential Equations	MATH 102TH	B.A/ B.SC 1st Year	CO1	Find the complete solution of non homogeneous differential equations as a linear combination of complementary function and a particular solution.
				CO2	Learn various methods of getting exact solution of first order and higher order differential equations.
				CO3	Have a working knowledge of basic application problems of second order differential equation with constant coefficients.
3	Real Analysis	MATH 201TH	B.A/ B.SC 2nd Year	CO1	Recognize bounded, convergent, divergent, Cauchy's and Monotonic sequences and to calculate their limit superiors and inferior and limit of bounded sequence.
				CO2	Understand many properties of real line and learn to define sequence of real numbers.
				CO3	Apply the ratio test, alternating test and limit comparison test for convergence and absolute convergence of an infinite series of real numbers.
				CO4	Recognize the difference between point wise and uniform convergence of sequence of functions.
4	Algebra	MATH 202TH	B.A/ B.SC 2nd Year	CO1	Understand the basic concept of groups and their properties.
				CO2	Understand the importance of algebraic properties with regards to working within various number systems.

				CO3	Understand the fundamental concept of ring theory such as concept of ideals, quotient rings, integral domain and fields.
5	Logic and sets	MATH 307TH	B.A/ B.SC 2nd Year	CO1	Analyze logical proposition via truth table.
				CO2	Draw and interpret Venn diagrams of set relations and operations and use Venn diagram to solve the problems.
6	Analytical Geometry	MATH 308TH	B.A/ B.SC 2nd Year	CO1	Define the techniques for sketching parabola, ellipse and hyperbola.
				CO2	Understand the concept of classification of quadratic equations representing lines, parabola etc.
				CO3	Reorganized the concept of illustrations of graphing standard quadratic surfaces like cone, ellipsoid.
7	Integral Calculus	MATH 309TH	B.A/ B.SC 2nd Year	CO1	Understand the concept of integration of rational and irrational functions and properties of definite integral.
				CO2	Calculate the length of an arc of a curve when equation are given in parametric and polar form.
				CO3	Evaluate the area of surface of revolution.
				CO4	Determine the area and volume by applying the techniques of double and triple integral.
8	Vector Calculus	MATH 310TH	B.A/ B.SC 2nd Year	CO1	Memorize the definition of scalar and Vector product of three vectors, product of four vectors and reciprocal of vectors.
				CO2	Understand the concept of gradient divergence and curl of vectors.
				CO3	Understand the concept of Green's theorem to evaluate the line integral along simple closed contours on the plane.
				CO4	Apply gradient to solve problems involving normal vectors to level surfaces.
9	Boolean algebra	MATH 311TH	B.A/ B.SC 2nd Year	CO1	Define Definition, examples and basic properties of ordered sets and duality principle.
				CO2	Understand the concept of lattices as ordered sets, complete Lattices and lattices as algebraic structures.
				CO3	Recognize the concept of Boolean algebra and Boolean polynomials.

10	Number Theory	MATH 312TH	B.A/ B.SC 2nd Year	CO1	Define and interpret the concept of divisibility, congruency, prime and prime factorization.
				CO2	Explain Fermat's theorem, fundamental theorem of arithmetic.
				CO3	Understand the concept of Dirichlet product, the Mobius inversion formula and Euler's phi function.
11	Matrices	MATH 301TH	B.A/B.SC 3rd Year	CO1	Define matrices, types of matrices, invariance of rank under elementary transformations.
				CO2	Recognize the system of linear equations, identify the existence of solutions and if there are solutions, solve the equations.
				CO3	Understand the concept of matrix form of basic geometric transformations.
12	Mechanics	MATH 302TH	B.A/B.SC 3rd Year	CO1	Have a deep understanding of Newton's Laws.
				CO2	Learn about the conditions of equilibrium of particles and of coplanar forces acting on a rigid body.
				CO3	State the laws of friction.
				CO4	Learn about the work and potential energy.
				CO5	Understand the concept of simple harmonic motion and projectile motion.
13	Linear Algebra	MATH 303TH	B.A/B.SC 3rd Year	CO1	Solve the systems of linear equations.
				CO2	Understand the concept of dual space, dual basis, Eigen values, and Eigen vectors.
				CO3	Recognize the concepts of linear span, linear independence, dependence, basis and dimensions and apply these concepts to various vector spaces and subspaces.
				CO4	Use matrix algebra and related matrices to linear transformations.
				CO5	Understand the concept of isomorphism and use of the theorems based on isomorphism.
14	Numerical Methods	MATH 304TH	B.A/B.SC 3rd Year	CO1	Obtain the numerical solutions of algebraic and transcendental equations using an appropriate numerical method.

				CO2	Establish the limitations, advantages and disadvantage of numerical methods.
				CO3	Solve initial and boundary value problem in differential equations using numerical methods.
15	Complex Analysis	MATH 305TH	B.A/B.SC 3rd Year	CO1	Have deep knowledge of limit involving the point at infinity, continuity, properties of complex numbers.
				CO2	Recognize the concept of analytic functions, contours, contour integrals.
				CO3	State cauchy's- Goursat theorem, liouville's theorem's etc.
16	Linear Programming	MATH 306TH	B.A/B.SC 3rd Year	CO1	Describe graphical approach for solving some linear programs, theory of simplex method and their comparison.
				CO2	Explain duality, formulation of the dual problems primal- dual relationships and economic interpretation of the dual.
17	Probability and Statistics	MATH 313TH	B.A/B.SC 3rd Year	CO1	Recognize the role of probability theory.
				CO2	Define and illustrate the concept of sample space, events and compute the probability of events and use baye's rule.
				CO3	Understand the concept of discrete and continuous random variable.
				CO4	Understand the use of various methods to compute the probability of events.
18	Mathematical finance	MATH 314TH	B.A/B.SC 3rd Year	CO1	Have deep knowledge of interest (simple and compound), time value of money, inflation, and internal rate of return (calculation by bisection and networks Raphson methods.)
				CO2	Understand the concept of bond prices, floating rate bonds and immunization.
19	Mathematical modeling	MATH 315TH	B.A/B.SC 3rd Year	CO1	Understand the concept of free damped motion, forced motion and resonance phenomena etc.
				CO2	Define the application to traffic flow. Conduction of heat in solid and conservation laws.
20	Theory of Equations	MATH 316TH	B.A/B.SC 3rd Year	CO1	Understand the concept of general properties and graphical representation of polynomials.

				CO2	Define symmetric function and applications of symmetric function of the roots.
				CO3	Understand the relation between roots and the coefficients of equation and solution of cubic and biquadrate equations with the help of cardan's method and Descartes method.
21	Transportation and game theory	MATH 317TH	B.A/B.SC 3rd Year	CO1	Understand the transportation problem and its mathematical formulation.
				CO2	Define vogel approximation method for determination of starting basic solution.
				CO3	Understand the concept of game theory involving formulation of the person zero sum games and games with mixed strategies.
22	Graph Theory	MATH 318TH	B.A/B.SC 3rd Year	CO1	Describe and demonstrate basic properties of graphs.
				CO2	Describe the concept of isomorphism of graphs, Hamiltonian cycles and weighted graph.
				CO3	Understand the concept of shortest path, dijkstra's algorithm and Floyd war shall algorithm.
23	Portfolio Optimization	MATH 319TH	Generic Elective B.A 3rd Year	CO1	Explain technical terminologies essential for the understanding of portfolio optimization including financial markets, investment objectives.
				CO2	Discriminate between different sources of risk and demonstrate the concepts of diversification.
				CO3	Demonstrate measure to evaluate a portfolio performance.
24	Queuing and Reliability Theory	MATH 320TH	Generic Elective B.A 3rd Year	CO1	The basic concept of queueing system.
				CO2	The basic of reliability, classes of distribution and reliability models.
				CO3	Reliability of a system and mean time before failure and hazard rate of exponential and weibull distributions.
25	Descriptive Statistics and Probability Theory	MATH 321TH	Generic Elective B.A 3rd Year	CO1	Acquaintance with various methods of collecting data and get familiar with some elementary methods of data viz Measures of central tendency, dispersion, Skewness and kurtosis and to interpret them.

				CO2	Understanding the concept of probability and to find probabilities of various events.
				CO3	Understanding the concept of correlation and regression, Karl Pearson coefficients of correlation and lines of regression.
				CO4	Organize, manage and present data.
26	Sample Surveys and Design of experiments	MATH 322TH	Generic Elective B.A 3rd Year	CO1	Understand the basic knowledge of complete enumeration and sample, sampling frame, sampling and non-sampling errors.
				CO2	Understand the basic terms used in design of experiments.
				CO3	Knowledge about comparing various sample techniques.
				CO4	Use appropriate experimental design to analyse the experimental data.

7. Bachelor of Arts (B.A.) with Music

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO 1	To demonstrate comprehensive technical and artistic competencies in the major performing area, including the ability to work independently to prepare performances at the highest possible level.
PO 2	To exhibit professionalism and community engagement that will enrich and strengthen their local culture and community.

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	To develop an understanding the basic concepts and the nature of Indian Music Vol. & Inst.
PSO2	To understand the technical terms and their modern context like swar, Shruti, Nad, Gamak, Jati, Gat, Khayal, Dharapad, Jhala& basic stocks of Sitar.
PSO3	This course will definitely be beneficial to those students who want to pursue music as a profession.
PSO4	They can go for higher studies in performing arts and become as a artist.
PSO5	They can become as a music teacher, Instructors.
PSO6	Students' can also become professionals and pursue their careers as professional artists.
PSO7	Students will be in a Positions to appreciate the rich Indian Culture and performing arts.

iii. Course Outcome

S.No.	Course Title	Course Code	Class	Co's	Course Outcome
1	Basic Principles of Indian Music & Biographies of musicians Composers & Musicologists. Paper-1 Theory (unit 1)	MUSA 101 TH	B.A 1 st Year	CO1	The students understand the basic principles and terminologies of Indian music. They will be better able to understand rich Indian of performing Arts.
2	Stage Performance Paper-1 practical (unit-2)	MUSA 102PR	B.A 1 st Year	CO2	The students is able to give a practical demonstration of the prescribed rages and is able to demonstrate various aspects of ragas and their differentiation.
3	Theory of Indian music (general)& Biographies of musician's Composers & musicologists Paper-2 (unit-1)	MUSA 103TH	B.A 1 st Year	CO3	They will come to know about the hard work and contribution great musicians.
4	Viva Voce Paper-2 (unit-2)	MUSA 104PR	B.A 1 st Year	CO4	Student's aptitude and skills in the field of Indian classical music will be Enhanced.
5	Theory of Indian Music, Ancient, Grant has & contributing Musicologists Paper-3 (unit-1)	MUSA 201TH (DSE)	B.A 2nd Year	CO5	Students will gain vast knowledge of Granthas, Natya Shastra, Sangeet Ratrakar, and cortibution of the following musicians – Pt V.D Paluskar, Swami tyagaraja, Pt Sharangdev.
6	Stage Performance Paper-2 Practical (unit-2)	MUSA 202PR (DSE)	B.A 2nd Year	CO6	To aware students about the Ragas of the syllabus.
7	Theory of Indian music, Medieval Granthas & Contribution Of musicians of musicologists. Paper-4 Theory (unit-1)	MUSA 203TH	B.A 2nd Year	CO7	Course exPSOés the students to the Granthas and study of following some talas and ragas write in notation system.

8	Viva Voce Paper-4 Practical (Unit-2)	MUSA 204PR (DSE)	B.A 2nd Year	CO8	Course Familiarizes students with the different Ragas & Talas.
9	Theory of Indian Music and gharana tradition. Theory (Unit-1)	MUSA 305TH (DSE-1B)	B.A 3 rd Year	CO9	Course Familiarizes students with Gharana parampara of India Music. That's & Music & Asthetics.
10	Practical ,Practical (unit- 2)	MUSA 306PR (DSE-1B)	B.A 3 rd Year	CO1 0	It will improve students understanding of ragas & talas.
11	Practical (unit-2)	MUSA 304PR (DSE-1A)	B.A 3 rd Year	CO1 1	To aware students about ragas & talas & comparative study of previous ragas and talas.
12	Theory of Indian music and study of ancient granthas and Ragor. (Unit-1)	MUSA 303TH (DSE-A)	B.A 3 rd Year	CO1 2	It will lead to better understanding of rich Indian Culture and introduced to students with different instruments like sitar Tabla, Tanpura, Harmoniam & Dholak and folk instruments.
13	Presentation and Documentation-3	MUSA 301PR (S.E.C)-3	B.A 3 rd Year	CO1 3	Students are introduced to power point of presentation & performance of Indian music in Vol. & Ints.
14	Presentation and Documentation-4	MUSA 302 PR (S.E.C)-4	B.A 3 rd Year	CO1 4	Their performing skills with improve.
15	Practical	MUSA 308PR (G.E.C) GE-2	B.A 3 rd Year	CO1 5	Will also improve their performing skills.
16	Theory of Indian Music and Folk Music of H.P.	MUSA 307TH (G.E.C) GE-1	B.A 3 rd Year	CO1 6	Students are introduced with folk music of H.P. and folk instruments & basic techniques of sitar & tanpura & table.

8. Bachelor of Arts (B.A.) with Physical Education

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO 1	The study of physical education helps the students know about the importance of physical education in personality development and participation in sports. it helps them for higher level of achievements.
PO 2	To demonstrate empathetic social concern and equity-centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO 3	To recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 4	To understand the issues of environmental contexts and sustainable development.
PO 5	To acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

ii. Programme Specific outcome

Programme Specific Outcomes	
PSO1	This subject helps the students to understand the values and ethics of life and personality development.
PSO2	This subject helps them to know about health aspects and maintain good health and fitness for higher achievements in sports.
PSO3	The students can better understand the importance of physical education by studying the history.
PSO4	The subject helps the students to understand the psychological aspects include in sports for good performance.
PSO5	Study of this subject helps the students to know more about the human body which helps him for higher level of sports achievements and adopt training method.
PSO6	The students are able to better understand the body movement in sports and the body mechanism for higher achievements

iii. Course Outcome

S. No.	Course Title	Course Code	Class	COs	Course Outcome
1	Introduction to Physical Education	PED 101TH	B.A.1 st Yr	CO1	Understand the origin and development of physical education.
				CO2	Formulate the forinciples and concepts about physical education.
				CO3	Understand the anatomical and physiological difference between male and female.
				CO4	Understand the state/ national awards,
				CO5	Explain different emerging trends in physical education.
2	Olympic movements and organization of tournament	PED 102TH	B.A.1 st Yr	CO1	Understand the importance and objective of Olympic games.
				CO2	Design tournament fixtures and structures to organize competition.
				CO3	Formulate the importance and planning about intramurals and extramural competitions.
				CO4	Understand the national sports policy and policy of Himachal Pradesh.
				CO5	Appraise and manage the protocols to organize college Annual Athletic- meet.
3	Human Anatomy and physiology.	PED 201TH	B.A.2 nd Yr	CO1	Understand the basic concept of anatomy and physiology.
				CO2	Appraise the effects of exercises and training on various body systems.
				CO3	Remember and recall the definition of anatomy and physiology.
				CO4	Understand the need and importance of exercise physiology.
				CO5	Explain the different energy sources.
4	Sports Psychology	PED 202TH	B.A.2 nd Yr	CO1	Understand the scope and importance of sports psychology.
				CO2	Appraise the psychological factors affecting sports performance.
				CO3	Remembers and recall the different definitions of sports psychology and psychology.
				CO4	Understand the learning and laws of learning.
				CO5	Explain rate of sports in the development of personality.
5				CO1	Understand the modern concept and importance of sports medicine.

	Sports medicine physiotherapy and Rehabilitation	PED 203TH	B.A.2 nd Yr	CO2	Understand the primary responsibilities the sports forouiding initial care for injured athlete.
				CO3	Demonstrate the basics of sports first aid during and after game situation.
				CO4	Recognize and appropriately heat common sports injuries and conditions from onset through rehabilitation.
6	Sports Training	PED 204TH	B.A.2 nd Yr	CO1	Understand the principal and objectives of sports training.
				CO2	Understand training as performance-based science.
				CO3	Explain different means and methods of various training.
				CO4	Appraise types of periodization for performance development.
				CO5	Explain physical fitness and developing methods.
7	Recreation	PED 305TH	B.A.3 rd Yr	CO1	Understand the need for and importance of recreation.
				CO2	Able to organize recreational comp and activates.
				CO4	Appraise types and nature of recreation.
				CO5	Explain the responsibilities of recreational manager.
				CO2	Understand the importance and utilities of picnic.
8	kinesiology and biomechanics	PED 306TH	B.A.3 rd Yr	CO1	Understand the importance of kinesiology and biomechanics.
				CO2	Appraise the fundamental anatomical position.
				CO3	Explain the different biomechanical terms.
				CO4	Know effectiveness of human movement using mechanical prinaples.
				CO5	Understand kinesiological classification of muscles.
9	Methods of teaching in physical education	PED 307 TH	B.A.3 rd Yr	CO1	Understand the principles of teaching methods and different method of teaching.
				CO2	Appraise the presentation technique.
				CO3	Explain types and objective of lesson plan.
				CO4	Understand the need for and importance of emaciation.
10				CO1	Understand the principles of officiating and coaching.

	officiating and coaching	PED 308TH	B.A.3 rd Yr	CO2	Able to understand the rules of the games and sports.
				CO3	Explain csuahities and qualification of an efficient coach and official.
				CO4	Understand the current status of coaching and officiating in India.
11	Health education and Nutrition	PED 309TH	B.A.3 rd Yr	CO1	Able to understand the concept and scope of health education.
				CO2	Remember and recall the definition of health education.
				CO3	Explain the different communicable diseases.
				CO4	Appraise the daily energy/ calorie requirement of healthy person.
				CO5	Appraise the effects of health condition during the training and practical session.
12	YOGA	PED 310TH	B.A.3 rd Yr	CO1	Understand the basic concepts of YOGA.
				CO2	Apply the principles of Yoga to line healthy and active lifestyle.
				CO3	Promote the awareness of health trough Yoga.
				CO4	Explain the general technique and benefits of Asians.
				CO5	Explain difference between Yoga and general exercise.

9. Bachelor of Arts (B.A.) with Political Science

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO1	To provides the candidates with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, or public administration.
PO2	To acquire knowledge and understanding in their specific field of study as well as into current research and development work.
PO3	To be able to demonstrate the ability to identify issues critically and to plan the assigned tasks accordingly.
PO4	The programme provides in-depth knowledge of Political Science and arouses interest of the students towards research in this field.

ii. Programme Specific outcome

PSO	B.A. Political-Science Specific Outcomes
PSO1	To familiarizes the students with the basic ideas and concepts of political theory including traditional as well as contemporary approaches.
PSO2	To enable students to understand the state structure and institutions established by the Constitution of India.
PSO3	To familiarize students with the basic concepts, methods and scope of comparative politics, different approaches including their strengths and weaknesses.
PSO4	To deepen students' knowledge of International Politics and equip them with theoretical tools to understand and assess contemporary developments in international relations.
PSO5	To acquaint the students with the legislative process in India at national as well as state levels. It will also deepen their understanding of Panchayati Raj institutions and its importance for our democracy.
PSO6	To introduce the students with various principles and practices of public opinion. It will familiarize them with methods of social research both qualitative as well as quantitative.
PSO7	To make students familiar with the works and political thought of main thinkers of Western and Indian tradition.
PSO8	To enable students to understand the democratic political process in India and its relationship with existing social and economic environment.

PSO9	To enable students to understand the legal system in India and functioning of different courts. Democratic awareness of the students will deepen when they understand different available rights and duties.
PSO10	This course introduces the students with Peace and Conflict Resolution including key concepts and related theories.
PSO11	To make students aware about the society, economy and politics of Himachal Pradesh. It traces the journey of Himachal Pradesh from the politics of statehood to its current Position.
PSO12	The course introduces the students about different strands in the debates on human rights, gender and environment. The Course Objective is to gain insight into the crucial issues of just human existence.

iii. Course Outcome

Sr. No	Course Title	Course Code	Nature of Course and Year	COs	Course Outcome
1	Introduction to Political Theory	POLS 101	DSC-1A First Year	CO1	Clearly understand the various theories and concepts.
				CO2	Develop the ability to make logical inferences about social and political issues.
				CO3	Understand the significance of theorizing and of applying theory into practice.
2	Indian Government and Politics	POLS 102	DSC-1B First Year	CO1	Familiar with the debates around the origin and evolution of the Indian Constitution.
				CO2	Understand how the government functions through its various organs.
				CO3	Understand the social and economic issues that influence the working of Indian Polity.
3	Comparative Government and Politics	POLS 201	DSC-1B First Year	CO1	Students would understand the structure and function of institutions in comparative perspective.
				CO2	Understand the functioning of some major political systems of the world including UK, USA, Canada and China.
				CO3	Understand the functioning of party systems in comparative perspective.

4	Introduction to International Relations	POLS 202	DSC-1D Second Year	CO1	To have a comprehensive understanding of historical processes and contemporary practices in International Relations.
				CO2	Understand the foundational theories, concepts and approaches of International Relations.
				CO3	The students will be able to go beyond Eurocentric International Relations and reflect on emerging centers of power including India.
5	Legislative Support	POLS 203	SEC-I Second Year	CO1	Understand the structure and functions of law making bodies in India at different levels.
				CO2	Understand the functioning of grass-roots democracy in India.
				CO3	Acquire basic knowledge of different legislative documents, especially the Budget Document.
6	Public Opinion and Survey Research	POLS 204	SEC-2-Second Year	CO1	Understand the importance and role of public opinion in democracy.
				CO2	Acquire basic skill to measure public opinion.
				CO3	Learn the methods of scientific research like sampling, survey, interview and questionnaire.
7	Themes in Comparative Political Theory	POLS 301(A)OR	DSE-1A Third Year	CO 1	Students would be able to critically understand the features of Indian and Western Political Thought.
				CO 2	The students will be able to know the evolution of modern India Political Thought.
				CO 3	The course will familiarize students with the ideas of some key political thinkers of modern India.
8	Administration and Public Policy: Concepts and Theories	POLS 301(B)	DSE-1A Third Year	CO1	The students will be able to understand an overview of the discipline including its evolution.
				CO2	The students would be able to understand different administrative theories.

				CO3	Learn the process of policy formulation, its implementation and evaluation.
9	Democracy and Governance	POLS 302(A)	DSC-1B Third Year	CO1	The students would be able to understand the structure and process of Governance at Union and State Level.
				CO2	Develop an insight into dynamics of civil society and new social movements.
				CO3	Understand the challenges of liberalization and prospects of E-Governance.
10	Understanding Globalization	POLS 302(B)	DSE-1B Third Year	CO1	The students will have foundational understanding of the meaning, nature and significance of globalization.
				CO2	The students would be able to understand the major actors of world politics like United Nations and World Trade Organization (WTO).
				CO3	This course will enhance the students' understanding of contemporary world issues, esp. Global Warming, Terrorism, Poverty and Inequality.
11	Democratic Awareness Through Legal Literacy	POLS 303	SEC-3 Third Year	CO1	Develop an understanding of structure and principles of the legal system of India.
				CO2	Develop Basic awareness and skills to safeguard the rights guaranteed to citizens and other persons
				CO3	Develop an understanding of law not merely as state sanctioned rules but also as a source of rights.
12	Conflict and Peace Building	POLS 304	SEC-4 Third Year	CO1	The students will be able to understand the various types of conflict.
				CO2	The course will enhance the ability of students to understand peaceful and non-violent techniques of conflict resolution.
				CO3	The study of diplomatic techniques-Track I and Track II Diplomacy will enhance their knowledge of this subject.

13	Society, Economy and Politics in Himachal Pradesh	POLS 305	GE-1 Third Year	CO1	Demonstrate the understanding of the evolution of Himachal Pradesh as a state of India.
				CO2	This course will enhance the knowledge of students about the economy and Hydro-Electric Power Projects of Himachal Pradesh.
				CO3	The study of political parties, electoral politics, role of caste and politics of sub-regionalism will further enhance their knowledge of Himachal Pradesh.
14	Human Rights, Gender and Environment	POLS 306	GE-2 Third Year	CO1	This course will equip students with an understanding of debates on theoretical aspects of human rights.
				CO2	Taking case of India, students will be able to relate the issues of human rights in reference to the Constitution of India.
				CO3	The study of the discourse of gender, environment and sustainable development will develop the analytical ability of students and make them aware about structural violence.

10. Bachelor of Arts (B.A.) with Sanskrit

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO 1	It aims to train students in classical Sanskrit in which major works on various disciplines are written.
PO 2	It is also aims to train them in important traditional disciplines such as - Vedic studies; prose, poetry and drama which have inspired and continue to inspire great literary works in almost all Indian languages;
PO 3	Students also learn literary criticism or kavya Shastra; vyakarana which covers a large area of linguistics; darshana i.e., philosophy and logic; dharma Shastra which covers many areas of sociology and legal studies.
PO 4	The course will thus make students better equipped to pursue their post graduate studies and undertake further research in these disciplines

ii. Programme Specific outcome

PSO	Programme Specific Outcome
PSO1	The programme enables UG student to develop a deep understanding for age-old rich heritage of India.
PSO2	It covers knowledge of almost all fields in Sanskrit i.e., Literature, Grammar, Philosophy, Ayurveda, yoga, linguistics, Architecture, Theatre etc.
PSO3	It gives students basic knowledge of grammar which includes the process of the origin of a character and formation of the words. This helps students developing their understanding for languages, especially for Hindi and Sanskrit.
PO4	It gives students a vision for comparative study of Geographic, cultural, Religious and Economic conditions of ancient and modern India.
PO5	It imparts knowledge of application of ancient Indian wisdom in contemporary problem solving, being time less and applicable to all situations.
PO6	It facilitates acquiring knowledge of oldest scriptures and texts of India.
PO7	It enables students to understand and study different languages of India and world as all Indian languages and a few languages of south Asia and Europe have the roots in Sanskrit.
PO8	It helps imparting knowledge of Indian calendar, culture, lifestyle etc. for practising a more indigenous lifestyle.
PO9	It facilities students acquiring communication skills, leadership, research aptitude and behaviour a modification etc.

iii. Course Outcome

Course Title	Course code	Nature of course & year	CO's	Course outcome
Sanskrit Kavya	-101	DSC 1st year	CO1	It introduces students to the literary works of prominent Sanskrit scholars i.e. Kalidas, Magh, Bhartihari.
			CO2	In Raghuvan sham Mahakavi Kalidas has described characteristics of Raghuvanshi Kings which attracts students toward good qualified.
			CO3	In Magha's Shishupalvadham students come across with a peculiar genre
			CO4	Bhartrihari's Nitishatkam is a collection of hundred verses on various issues of social concern.
			CO5	This course gives a general outline of the history of sanskrit poetry, Origin and development.
KiSanskrit Gadya Kavya	SKT-DSC-102	DSC 1st year	CO1	This course enables students to familiarize themselves with some of the leading classical proseworks of Sanskrit.
			CO2	Students get acquainted with Banabhatt 'swriting skills through his Shuknasopdesha.
			CO3	Sukhnas'sserman to Chandrapeed is of all time importance to the students.
			CO4	Shivrajvijay is a first novel of sanskrit which is of historical importance for the students.
			CO5	It enables students to understand origin and development of sanskrit prose.
			CO1	The course makes students aquatinted with the Niti- Literature meaning

Neeti Sahitya	Neeti Sahitya	SKT-DSC-103		thereby policy- literature in Sanskrit.
			CO2	Panchatantra of vishnusharma gives students a broader vision to deal with social, political and personal issues in a very simple way.
			CO3	It helps students improving their reading and Story writing skills.
			CO4	It enables students to enjoy the essence of Nitishatkam of Bhartrihari and to apply its teachings in their day today life.
			CO5	Through this course students come to know origin and development of Niti Sahitya.

Upnishad, Bhagwad Gita and Paniniya Shiksha	SKT-AECC- 104	AECC 1st YEAR	CO1	It gives general outline of Upnishad- philosophy, particularly of Ishavasyopanishad.
			CO2	Through this course students get acquainted with their old scriptures.
			CO3	It makes students understand deep philosophical thoughts of Ishavasyopnishad and Bhagwad Gita.
			CO4	It includes 2 nd chapter of Bhagwad Gita which explains mortality of the body and immortality of the soul
			CO5	It describes origin process of letters in sanskrit through Paniniya Shiksha.
Sanskrit Natak	SKT-DSC- 201	DSC 2nd year	CO1	This course helps students to get acquainted with two most prominent dramatic works of sanskrit literature
			CO2	Plays included in this course represent two stages of development of Sanskrit drama.
			CO3	It includes Karnbharam of bhasa which highlights characteristics of great donor of Mahabharat, Karan.
			CO4	Abhigyan Shakuntala makes students aware of the beauty of classical sanskrit drama highlighting moral values and love for nature.
			CO5	It enables students to get acquainted with technical words used in sanskrit drama as described in Natya Shastra.
Sanskrit Vyakaran	SKT-DSC- 202	DSC	CO1	It introduces students with the basic element of sanskrit language i.e., grammar.
			CO2	Students come to know structural perspective of Sanskrit on the basis of Laghu siddhan tKaumudi, the premier text of Sanskrit grammar written by varadraj.

			CO3	It facilitates students to learn 14Maheshwara Sutras, the very base of sanskrit grammar.
			CO4	It gives knowledge of sandhi, karakas etc. for the formation of sentences in sanskrit.
			CO5	After completion of this course, it becomes very easy for students to understand structural pattern of sanskrit language.
Vyakaranevam Samayojan	SKT-DSC- 203	DSC 2nd year	CO1	It enables students to know basics of sanskrit grammar.
			CO2	Students learn sangya, sandhi, samason the basis of laghu siddant kaumudi.

			CO3	It also introduces students to pratyay (suffix)for formation of meaningful words.
			CO4	This enables students to write short paras in sanskrit .
			CO5	It also facilitates students to translating sentences in sanskrit from hindi or english.
AyurvedkemooolSi d dant	SKT- AEEC/SEC- 205	AEEC/SEC 2nd year	CO1	This course introduces students to the traditional indian healthcare system.
			CO2	It enables students know history of Ayurveda through original sanskrit texts i.e.,Charaksamhita, Sushrutsamhita, Ashtanghridayaand Taitariyopanishadh.
			CO3	It makes students appreciate principles of traditional Indian medicine system.
			CO4	It makes students know that Aurveda does not give knowledge of medicine and physical health only but also explains healthy lifestyle including food habits, preventive measures, medicinal pls ts etc.
			CO5	Students also get basic knowledge of physiology, healthcare, ways of diagnosis of illnesses and preventive measures.
SanskritChhand ev amgaayan	SKT- AEEC/SEC- 206	AEEC/SEC2 nd year	CO1	This course enables students to learn sanskrit meters and lyrical technique.
			CO2	Students get acquainted with the basics of the vedic and Classical meters.
			CO3	Students get introduced to Chhanashastra- cassification and elements of chhand as described Therein.
			CO4	Students get to learn analysis of selected classical meters (anushthan, malini etc.) and their musical renditions(gayanpaddhati).
			CO5	It develops quality of lyric writing and along with its rendition.

Vyaktitva Vikas ka Bharatiy Drishtikon	SKT-DSE- 301	DSC3 rd year	CO1	This course helps students to develop the rpersonalityas a perfect human being.
			CO2	It introduces students to some theoretical concepts and practical techniques for development of their personality.
			CO3	It enables students to know the concept of person, personality and it's Development on the basis of Gita ,Upnishad and Vedic literature.
			CO4	It covers verses of Gita from its various chapters to explain concept of a person.
			CO5	Measures for behavioural improvement are also included for student's overall growth.

Sahityik Samalochana	SKT-DSE- 302	DSE3 rd year	CO1	It makes students get acquainted with the aims, causes of origin(hetu), types, and definition of Kavya (poetry) on the basis of Mummy's Kavya-Prakash.
			CO2	Students get benefitted from the knowledge of word powers- Abhidha, Lakshna and Vyanjana.
			CO3	It imparts knowledge on the types of the three-word powers.
			CO4	It also introduces students with rasa- the students come to know three types of words.
			CO5	essence of Kavya.
Patanjal Yogsutra	SKT-GE- 303	GE3 rd year	CO1	This course makes students know world's most important and popular text.
			CO2	It makes students aware of the vision of our <u>ancient yoga tradition</u> .
			CO3	It helps students to apprehend yoga sutras of Maharshi Patanjali.
			CO4	It facilitates students to acquire necessary tools for a balanced life.
			CO5	Students learn as how to concentrate their mind and body in order to lead a peaceful and happy life.
JiBhasha Vigyan keMool bhut Siddant	SKT-GE- 304	GE3 rd year	CO1	It enables students understand basic fundamentals of linguistics in Sanskrit language.
			CO2	It enables students to develop a scientific approach to study the languages.
			CO3	It facilitates students to know structure of a language i.e., phonology and phonetics, morphology and syntax etc.
			CO4	It makes students capable of analysing the words and their meanings.
			CO5	It makes students capable of classification of languages.

Bharatiy Rangshala	SKT-AEEC/SEC-305	AECC/SEC3 rd year	CO1	It enables students to know Various aspects of the article performances and production.
			CO2	It Helps them knowing various technical words related to theatre.
			CO3	It facilities students to acquire knowledge of the origin And development of theatre in India
			CO4	It gives knowledge as how to construct rangmanch.
			CO5	It also describes types of rangmanch or rangshala.

11. Bachelor of Arts (B.A.) with Sociology

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO1	Understand the Theoretical and Methodological Technique in complex social and cultural realities both at local and global level.
PO2	Appreciate and develop sociological imagination/perspective contributing to the overall mission of the college of and in accordance with the needs of the community.
PO3	Discuss the significance of social structure and process, multi-cultural perspectives, and emerging trends of the local and global community as a whole through various outreach programs. Giving a Holistic View.
PO4	Understand the integration between Social Theory and Research.
PO5	Associate sociological concepts to real life conditions thus building a diverse Interdisciplinary learning
PO6	Develop into an honest credible and accountable individual with integrity. Thereby making the subject a Value-Oriented discipline.

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	The Programme seeks to develop in students the sociological Knowledge and skills that will enable them to think about society and social issues critically and imaginatively.
PSO2	The ability to demonstrate sociological understanding of phenomena for e.g. how individual behaviour are shaped by social structure, social institution cultural practices and multiple area of difference and inequality.
PSO3	The course intends to orient the students to certain basic perspective in sociology.
PSO4	Student learns about institutions, folkways, mores, culture, social contract, social inequality, population Composition, population policy, society and culture in India.
PSO5	Students will develop an understanding of various aspects of doing social science research with focus on methodology, making research Proposal, doing field work & report writing.
PSO6	Analyse the critical aspect of sociology of development & planning, the theories, and the planning system of development.
PSO7	Explain how environmental sociology can be used to analyse contemporary issues and to develop policies for social change.

iii. Course Outcome

Sr. No.	Course Title	Course Code	Class	CO's	Course Outcome
1	Introduction to Sociology	SOCL -A101 DSC 1	1st year	CO1	Students were able to define sociology & demonstrate nature, scope & subject matter of sociology and importance of sociology.
				CO2	Students got to know how sociology differ from and is similar to other social sciences and their area of interdependence.
				CO3	Students gained knowledge about basic concepts In sociology like (Society, Community, Association, institution, role, status, Socialization.)
2	Society in India	SOCL -A 102 DSC 2	1st year	CO1	Students got to know various perspectives of Indian Society.
				CO2	It acquainted students to basic issues of Indian society like unity in diversity, problem of casteism, secularism and communalism.
				CO3	Describing stratification system in India including Caste & Class.
				CO4	Elaborating on Social institution like Marriage, Family, Kinship.
3	Sociology Theories	SOCL- A 201 DSC 1	2nd year	CO1	It enables students to define Sociological theory, understand its features & describe and illustrate the role of theory in building Sociological knowledge.
				CO2	Introduce themselves to the classical theories of Sociology and contribution of different thinkers in this regard.
				CO3	It enlightens students about contribution of founding father of Sociology in developing sociology as an academic discipline.
4	Methods of Sociology enquiry	SOCL- A 202 DSC 2	2nd year	CO1	It helps in understanding meaning, scope, types & Significance of Social research.
				CO2	Explained importance of research design in Social Research and how to formulate it.
				CO3	It acquainted students to different types of methodological perspective.
				CO4	It enabled students to Collect data and analyse date.
				CO5	It developed comparative understanding of various data collection techniques.
5	Techniques of Social Research	SOCL -A 203 SEC 1	2nd year	CO1	It enabled students in understanding Sociology as a Science, concept and steps in research.

				CO2	It acquainted students to sampling and various typed of sampling.
				CO3	They were able to do calculation of measure of central tendency Mean, Median, Mode.
				CO4	Data processing and data analysis.
6	Sociology of Environment	SOCL- A 204 SEC 2	2nd year	CO1	It enabled students to explain the concept of Environment and Society & Environmental Society.
				CO2	It enabled students to identify environmental problems and means of environmental awareness.
				CO3	Understood the Importance of Sustainable development.
				CO4	It explained how environmental Sociology can be used to analyse contemporary issue & to develop policies for social change.
7	Social Stratification	SOCL- A 305 DSE 2	3rd year	CO1	It enabled students for understand the meaning of Social Stratification.
				CO2	It helped them understand the various theoretical preselection of social stratification.
				CO3	It developed understanding of caste, class and gender.
				CO4	Acquainted students to Social Mobility with reference to Social Stratification.
8	Marriage Family & Kinship	SOCL- A 304 DSE 1	3rd year	CO1	It imparted a Comprehensive study of the concepts relevant for understanding kinship, marriage & family.
				CO2	It developed better understanding of family marriage and kinship in historical and evolutionary perspective.
				CO3	It made them understand changing pattern of family, marriage, with modernization and urbanization.
9	Social Demography	SOCL- A 301 SEC 3	3rd year	CO1	It made them aware of Meaning, nature & development of social demography and its scope & importance.
				CO2	It made students understand the interrelationship between various family behaviour and population problem.
				CO3	It made students understand how birth, death and migration affect population change.
				CO4	It made them aware about population theories and population policy in India.

10	Theory and Practice of development	SOCL- 302 SEC 4	3rd year	CO1	Introduction of students to the concept, theories & factors of social change and development.
				CO2	Role of PPP and PRI in Social development.
				CO3	Concept of Sustainable development and environmental discourse.
11	Economy & Society GEC	SOCL A 308 GE	3rd Year	CO1	Students will be able to analyse, Sociological Aspects of Economic processes.
				CO2	It enabled students to understand various Mode of Productions.
				CO3	It enlightened them about various contemporary issues like Globalisation and development.
12	Polity & Society in India GE-1	SOCL A 307 GE	3rd Year	CO1	Students will be able to understand the definition nature & scope sociology.
				CO2	Students will be able to understand the concepts of political Socialization influence of religion, caste, race & ethnicity culture, on political process.
				CO3	Students were made familiar to interest groups, pressure groups bureaucracy its features, its relation to politics of society.
				CO4	Analyse political participation- representation, electoral participation & electoral process.
13	Gender and sexuality	SOCL- A-306 DSE	3rd Year	CO1	Students were able to evaluate gender as a social construction, which perpetuate global inequality and stratification.
				CO2	Students were able to understand the concept of women empowerment.
				CO3	Students were made familiar with constitutional provision related to women.
14	Religion And Society	SOCL-A-303	3rd Year	CO1	Students were made familiar with the concept of Sacred and Profane.
				CO2	Students were made to understand the concept of secularism and communalism was elaborated.

12. Bachelor of Commerce (B.Com.)

i. Programme Outcome

Programme Outcome	
POs	On completion of the programme the students will be able to:
PO1	To gain an exhaustive acquaintance to lead as accounting professionals
PO2	To obtain acumen in pursuit of communication and information technology to serve as tax consultants
PO3	To become cognized to shine as marketing and finance experts
PO4	To get along with knowledge in banking and insurance laws, policies and operations
PO5	To shoulder the entrepreneurship in order to contribute for GDP's growth

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, warehousing etc., well trained professionals to meet the requirements.
PSO2	After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
PSO3	Capability of the students to make decisions at personal & professional level will increase after completion of this course.
PSO4	Students can independently start up their own business.
PSO5	Students can get thorough knowledge of finance and commerce.
PSO6	The knowledge of different specializations in accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
PSO7	The students can get the knowledge, skills and attitudes during the end of the B.Com. degree course.
PSO8	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.,
PSO9	Students will prove themselves in different professional exams like C.A., C. S., CMA, MPSC, UPSC. As well as other coerces.
PSO10	The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day-to-day business activities.
PSO11	Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.

PSO12	Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
PSO13	Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
PSO14	Students will be able to do their higher education and can make research in the field of finance and commerce.

iii. Course Outcome

Sr. No	Course Title	Course Code	Nature of Course and Year	Year	COs	Course Outcome
1	Financial Accounting	B.C.1.1	Discipline Specific Core (DSC)	B.Com. 1st year	CO1	The students will come to know compulsory accounting standards issued by ICAI, its relevance to India in maintenance of accounts, disclosure, and revenue recognition.
					CO2	Learner came to know various methods of stock valuation; methods which are recognised under AS-2, impact on profit if a method is changed.
					CO3	Learner came to know what capital exp. and revenue exp. is And distinction between them; its importance in preparation of final accounts.
					CO4	Learner got the skill of preparing Final account of sole proprietary concern of manufacturing unit and trading unit
					CO5	Learner developed the skill of preparing final accounts for departmental store, allocation of cost among different dep on suitable basis
					CO6	Learner developed the skill of accounting of hire purchase transactions, calculation of interest, depreciation etc.
					CO7	Learner got the understanding of Single entry and how to prepare Final accounts from incomplete records by preparing necessary working notes.

					CO8	Learner develops the skill of preparing branch accounts its relevance and ascertainment of branch profit.
					CO9	Learner came to know what a consignment sale is, its relevance, accounting of transactions in the books of consignor and consignee and ascertaining consignment profit.
2	Business Organisation and Management	B.C.1.2	Discipline Specific Core (DSC)	B.Com. 1st year	CO1	The students gain basic knowledge about the forms of business organisations and management of a business enterprise.
					CO2	The learners aware about conceptual knowledge and evolution of management.
					CO3	The learners will be aware about the functions of management.
					CO4	The learners will be conversant with various types of organisations – traditional and modern.
					CO5	The learners acquainted with functions and styles of leadership and importance of motivation.
3	Business Law	B.C.1.3	Discipline Specific Core (DSC)	B.Com. 1st year	CO1	The students gain the knowledge about important business legislation along with relevant case law and application of business laws.
					CO2	Students can get the knowledge in the formation of a contract and the essential elements for creating a contract.
					CO3	They can learn about the various common defects in a contract which affects its validity
					CO4	The legal consequences of breach of a contract and the methods of performing a contract are beneficial to the learners.
					CO5	The student knows importance of special contracts like Agency, Bailment and Pledge
					CO6	The students will become aware about the Sales of Goods Act, 1930 and its provisions
					CO7	The students will become aware about the Negotiable Instruments Act, 1881 and its provisions.
					CO8	The students will learn about the provision of Partnership Act, 1932 and Limited Liability Partnership, 2008

4	Business Mathematics and Statistics	B.C.1.4	Discipline Specific Core (DSC)	B.Com. 1st year	CO1	The students will be able to understand the various types of data and data collection methods along with their utilities
					CO2	They will be able to understand the concept of central tendency. They will also be able to calculate the various measures of central tendency
					CO3	The students acquainted with the applications of mathematics and statistical techniques in analysis and business decision making.
					CO4	Learners can find existence and extent of relation between two variables by graphical and mathematical method. They can estimate unknown values of co-related variables and can calculate coefficient of correlation.
					CO5	The students will be able to apply the matrices in business problems
					CO6	They will learn basic mathematics of finance.
					CO7	They will learn about index numbers, calculation of index numbers and their utilities in business organisations.
					CO8	They will be able to understand time series and calculation of various trends.
5	Company Law	B.C.2.1	Discipline Specific Core (DSC)	B.Com. 2nd year	CO1	The students understand the provisions of the Companies Act 2013 and their implication on companies.
					CO2	They will be able to understand different kind of corporate entities that are permitted to be set up
					CO3	They will be able to understand company incorporation and rules and procedures for running a company
					CO4	They will be able to understand manner of raising funds and roles and responsibilities of directors
					CO5	They will be able to understand rights and obligations of shareholders and other stakeholders including employees and creditors
					CO6	They will be able to understand winding up of a company and its procedures
6	Income Tax Law and Practice	B.C.2.2	Discipline Specific Core (DSC)	B.Com. 2nd year	CO1	The students are equipped with application of principles and provisions of Income-tax Act, 1961 and the relevant Rules.

					CO2	The learners will be aware of residential status of persons and incidence/charge of tax
					CO3	The learner will understand the provisions and procedure to compute total income under five heads of income i.e. salaries, house property, profits & gains from business & profession, capital gains and other sources.
					CO4	The student will understand some specific deductions to be made from gross total income U/s 80-C to 80-U in computing total income
					CO5	The learner will understand methodology to compute total taxable income
					CO6	The students will be able to fill online Income Tax Returns.
7	Computer Applications in Business	B.C.2.3	Skill Enanchment Elective Course (SEC)	B.Com. 2nd year	CO1	The course enhances the basic computer skills and knowledge for commerce students. It also enables the student to understand the usefulness of information technology tools in business operations.
					CO2	The students will gain the practical knowledge, implementation, and operation of business with computer applications
					CO3	They will be able to understand and work with simple formula for computation of Statement of Accounts
					CO4	The students will be able to use the Microsoft word in creating business documents
					CO5	The students will be able to use the Microsoft Power Point to create presentations
8	Corporate Accounting	B.C.2.4	Discipline Specific Core (DSC)	B.Com. 2nd year	CO1	This course enables students to acquire the basic knowledge of the corporate accounting and techniques of preparing the financial statements of various forms of business organizations.
					CO2	The learner acquainted with the company accounts and concepts of shares debentures reserves and surplus sand balance sheet format as per companies act 2013.
					CO3	The learner understands the legal procedure for repayment of preference shares

					CO4	The learners the legal procedures for redemption of debentures and their types.
					CO5	It makes learner to understand various basis of distribution of expenses to find out profit before and after incorporation.
					CO6	It makes learner to understand format of company final accounts and various schedules of company final accounts.
9	Cost Accounting	B.C.2.5	Discipline Specific Core (DSC)	B.Com. 2nd year	CO1	This course acquaints the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting bookkeeping systems.
					CO2	Learner got insight as to where contract costing is applied, what are the steps in contract costing, how profit is ascertained of complete & incomplete contract.
					CO3	Learner got understanding of process, Process costing, to which industry it is applicable. How to ascertain cost at each stage of process; valuation of abnormal gain & abnormal loss, by product, joint product and its accounting.
					CO4	Learner gets idea about the procedure in procurement of material, stores and its documentation, valuation of material, techniques applied in inventory control.
					CO5	Learner gets basic idea of Payroll procedure, overtime and idle time. Charging of labour cost to various cost centres and various incentive schemes to labourers.
					CO6	Learner gets idea of various types of overheads and how to apportion primary and secondary overheads to various cost centres.
					CO7	Learner can now prepare cost sheet based on functional classification of above types of cost.
					CO8	Learner can now find out causes for differences in profit as per cost a/c. and profit as per financial a/c. and prepare a statement reconciling costing profit with financial profit for managerial decision making.
10	E-Commerce	B.C.2.6	Skill Enhancement		CO1	The course enables the student to become familiar with the mechanism for conducting business transactions through electronic means. The

			Elective Course (SEC)	B.Com. 2nd year		students also use the application and use of various electronic payment systems.
					CO2	This subject introduces the basic concept of E-Commerce and its process and describe the opportunities and challenges offered by E-Commerce.
					CO3	The students will be able to handle electronic payment technology and requirements for internet-based payments. Understand the categories of E-Commerce and different applications of Ecommerce
					CO4	To understand and identify security issues of E-Commerce
					CO5	After the successful completion of this subject the students should have clear knowledge in the fields of E-Commerce, E-Markets, E-Payments Systems etc.
11	Human Resource Management	B.C.3.1(a)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course acquaints students with the techniques and principles to manage and control human resource of an organisation.
					CO2	Learners will be able to describe the functions of HR, list out the steps of recruitment and selection process, analyse sources of recruitment and effectively recruit applicants
					CO3	Learners will be able to identify training and development needs, performance, and potential appraisal process, and have an understanding as to when and how to use these techniques in corporate conditions.
					CO4	The learner will be able to understand the concepts and describe relevance of counselling, career planning and mentoring in originations.
					CO5	The learners understanding of human relations will be enhanced by citing different theories of motivation and leadership.
					CO6	The learner will be able to apply understanding of grievances in developing policies of grievance redressal.
					CO7	Learners will be able to understand how to classify competencies, interpret employee engagement levels, understand HRIS for better deployment of manpower, will demonstrate knowledge of current challenges in human resource management.

12	Principle of Marketing	B.C. 3.1(b)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course aims the acquaint students with basic knowledge of concepts, principles, tools, and techniques of marketing.
					CO2	Learner will be able to describe the nature, scope and importance and concepts of marketing
					CO3	Learners will be able to identify the nature and importance of consumer behaviour & market segmentation. They will be able to understand the factors influencing buying decisions.
					CO4	Learners will be able to understand concept, importance and classification of product, product mix, product life cycle, Product life cycle and new product development.
					CO5	Learners will understand the significance and factors affecting price of a product. They will be able to understand the channels of distribution, components of these channels and factors influencing the choice of distribution channel
					CO6	Learners will find out the nature, importance, types, features and significance of promotion and promotion mix. They will be able to understand the social media marketing, online marketing, service marketing, green marketing rural marketing and consumerism.
13	Corporate governance and auditing	B.C.3.1(c)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course provides knowledge of auditing principles, procedures, and techniques in accordance with current legal requirements and professional standards and give an overview of the principles of Corporate Governance and Corporate Social Responsibility
					CO2	The students acquired knowledge about vouching of cash & credit transaction, verification of assets & liabilities.
					CO3	From this subject, the students learned about preparation of different methods & auditors' responsibility regarding depreciation & reserves
					CO4	Identify issues usually addressed by corporate governance structures
					CO5	Summaries recent scandals and abuses and the regulatory reaction Identify the other drivers of corporate governance, such as capital markets, shareholders and rating agencies

14	Fundamentals of Financial Management	B.C.3.2(a)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course familiarizes the students with the principles and practices of financial management. The students can understand and apply tools and techniques of financial management.
					CO2	Learners understand the need, types and sources of finance.
					CO3	Learners are made aware of the importance of Capital Budgeting and different techniques of capital budgeting for decision making.
					CO4	Learners understand the concept of working capital, cash management, receivable management, inventory management and its requirements and control policies.
					CO5	Learners understand the concept of strategic financial management, financial decision making and financial planning process.
15	Goods and Service Tax (GST)	B.C.3.2(b)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course provides basic knowledge of GST and equip students with application of principles and provisions of GST.
					CO2	Students understand the history of GST all over the world.
					CO3	Students understand the ways of computing GST and Input Tax Credit
					CO4	Students learn how to decide the place of taxation
					CO5	Students learn the ways and means of registration under the Law
16	Entrepreneurship	B.C.3.3	Skill Enancement Elective Course (SEC)	B.Com. 3rd year	CO1	This course orients the learner toward entrepreneurship as a career option and creative thinking and behaviour.
					CO2	Learners understand entrepreneurial culture and various theories of entrepreneurship
					CO3	Learner understand SWOC analysis and importance of social entrepreneurship.
					CO4	Learners understand government schemes for women entrepreneurship in India
					CO5	Learners learn business idea, formulation of project and feasibility analysis
17	Principles of Micro-Economics	BC 3.4	Generic Elective (GE)	B.Com. 3rd year	CO1	This course imparts knowledge of basic principles of Microeconomics theory and its applications.
					CO2	Learners can aware scope and importance of business economics, and understand and the basic tools, and economic functional relations.

					CO3	Students can apply the demand and supply function in business decisions.
					CO4	Learners can aware the short run and long production function and economies of scale.
					CO5	Students can understand the various cost concepts and cost relations.
18	Corporate Tax Planning	B.C.3.5(a)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course provides knowledge of corporate tax planning and its impact on decision-making.
					CO2	Compute tax liability of a company
					CO3	Consider tax implications while taking business decisions
					CO4	Assess impact of taxation on trade off financial decisions
					CO5	Independently undertake corporate tax planning
					CO6	The students will be able to know the special provisions relating to non-residents
					CO7	The students will be able to know the planning with reference to business restructuring
19	Banking and Insurance	B.C.3.5(b)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course imparts knowledge about the basic principles of the banking and insurance.
					CO2	It provides knowledge about commercial banks and its Services
					CO3	It creates awareness about modern banking services like e-banking, banking, and Internet banking
					CO4	After completion of the course the students will have thorough knowledge on Banking Practices
					CO5	Students will get knowledge about the usage of insurance in personal and business life.
20	Management Accounting	B.C.3.5(c)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course imparts the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making. It also acquaints students about various tools and techniques used in management decision making.
					CO2	Learner got understanding of meaning, application, advantage and limitation of Marginal costing. Break even chart & analysis, P/V analysis, how to use Marginal costing in Managerial decision.

					CO3	Learner got understanding of standard cost, various types of standards, standard setting process, various types of variances. Its application in Managerial decisions
					CO4	Learners understand the concept of budgetary control its importance, limitations, and preparation of different types of budgets.
					CO5	The students will be familiar with ratio analysis
					CO6	The students will be able to make common size statements, comparative statements, trend analysis of financial statements.
21	Computerised Accounting System	B.C.3.5(d)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course enhances the skills needed for computerized accounting system and enables the students to develop simple accounting applications.
					CO2	The students will be able to design computerised accounting system
					CO3	The students will be able to design accounting support system
					CO4	The students will be able to use generic software's for computerised accounting
22	International Business	B.C.3.6(a)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course familiarizes the students with the concepts, importance and dynamics of international business and India's involvement with global business. The course also provides theoretical foundations of international business to the extent these are relevant to the global business operations and developments.
					CO2	The students can understand the different theories of international trade
					CO3	The students will understand the international financial environment
					CO4	The students will understand the international organisation structure
					CO5	This course familiarizes students about foreign trade promotion measures
					CO6	The students will be aware about various foreign trade and payment terms
23	Office Management and Secretarial Practice	B.C.3.6(b)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course familiarizes the students with the activities in a modern office. Smooth functioning of any organization depends upon the way various activities are organized, facilities provided to the staff working in the office, the working environment and the tools and equipment used in office.

					CO2	The students will be able to know the importance of modern office equipment's
					CO3	The students will know the role and responsibilities of office secretary
					CO4	The students are made aware about the mail and mailing procedures of the offices
					CO5	The students will be able to manage office finances and stationery
24	Fundamentals of Investment	B.C.3.6(c)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course familiarizes the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection.
					CO2	This course provides the knowledge about various approached to equity analysis
					CO3	The students will be able to analyse the various portfolios
					CO4	The students will know about various provision of investors protection
					CO5	This course provides the knowledge about various fixed income securities
25	Consumer Protection	B.C.3.6(d)	Discipline Specific Elective (DSE)	B.Com. 3rd year	CO1	This course familiarizes the students with of their rights as a consumer, the social and legal framework of protecting consumer rights. It also provides an understanding of the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards. The student will be able to comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.
					CO2	The students will be aware about various consumer protection laws in India
					CO3	The course provides information about grievance redressal mechanism under the consumer protection law
					CO4	They will get the awareness about various regulatory bodies for consumer protection
					CO5	The students will know about various quality and standardisation institutions

26	Personal Selling and Salesmanship	B.C.3.7	Skill Enhancement Elective Course (SEC)	B.Com. 3rd year	CO1	This course familiarizes the students with the fundamentals of personal selling and the selling process. They will be able to understand selling as a career and what it takes to be a successful salesman.
					CO2	It provides better skill development for a successful Salesman by understanding the way to interact with suppliers and customers
					CO3	The students understand the effectiveness of Sales organization and to be able to become a successful Sales Manager.
					CO4	The students will come to know about the various sales reports and sales manual.
					CO5	This course familiarizes the students with concept of merchandising
					CO6	The students will come to know about the concept and types of buying motives
27	Indian Economy	BC 3.8	Generic Elective (GE)	B.Com. 3rd year	CO1	This course enables students to have in-depth knowledge of various problems and issues faced by Indian Economy. It concentrates on both the achievements and the issues of the economy.
					CO2	The students will be aware about various govt. policies like monetary policy, fiscal policy.
					CO3	The students will get the knowledge about the concepts of inflation, unemployment and labour markets
					CO4	The students become aware of various sectoral trends and issues in agriculture, industry, service, finance sector.

13. Bachelor of Science (B.Sc.) with Botany

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO1	The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics and Computer Science
PO2	Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.
PO3	The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.
PO4	They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.
PO5	To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
PO6	The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.
PO7	To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

ii. Programme Specific outcome

Programme Specific Outcomes	
PSO	
PSO1	Knowledge and understanding of: The evaluation of plant diversity, plant classification, the range of plant diversity in terms of structure, function and environment relationships, the role of plants in the functioning of the global ecosystems, Statistics and bioinformatics as applied to biological data.
PSO2	Knowledge and understanding of: The evaluation of plant diversity, plant classification, the range of plant diversity in terms of structure, function and environment relationships, the role of plants in the functioning of the global ecosystems, Statistics and bioinformatics as applied to biological data.

PSO3	Scientific Knowledge: Apply the knowledge of basic sciences, life sciences and fundamental process of plants to study and analyze plant form.
PSO4	Modern tool usage: Create, select and apply appropriate techniques, resources, and modern instruments and equipment's for biochemical estimation, molecular Biology, plant tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.
PSO5	The Botanist and society: Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice.
PSO6	Practical skills: Students learn to carry out practical work, in the field and in the laboratory . They gain introductory experience in applying each of the following skills. 1.Interpreting plant morphology and anatomy. 2. Plant identification. 3. Vegetation analysis techniques. 4. A range of physiochemical analysis of plant materials in the context of plant physiology and biochemistry. 5. Analyse data using appropriate statistical methods and computer packages.
PSO7	Ethics: Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.
PSO8	Critical Thinking: Apply the knowledge of biology to make scientific queries and enhance the comprehensive potential.
PSO9	Build Skills: Building skills in mushroom cultivation technology, biofertilizers, gardening and floriculture and in medicinal botany through skill enhancement courses.
PSO10	Problem Analysis: Recognize and solve the problem of plant world. Formulate independent research related to Botany

iii. Course Outcome

S.No.	Course Title	Course Code	Nature of Course	Class	COs	Course Outcome
1	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	BOTA 101	Discipline Specific Course (DSC)	B.SC 1st Year	CO1	The students will gain Knowledge of Algae, Fungi, Microorganism, Bryophytes, Pteridophytes and Gymnosperms
					CO2	Develop conceptual skill for identification of these group of plants and microorganisms.
					CO3	It gives the students' knowledge about the structure, reproduction and economic value of these lower group of plants.
					CO4	The students will learn about the early land plants and the evolution of stele and origin of seed habit in plants.
					CO5	It helps in understanding the medicinal, industrial and ecological importance of these important lower group of plants.
2	Plant Ecology and Taxonomy	BOTA 102	Discipline Specific Course (DSC)	B.SC 1st Year	CO1	It helps in understanding the various processes and phenomenon related to ecology and environment.
					CO2	The students will gain Knowledge about various concepts in plant taxonomy and botanical nomenclature.
					CO3	It provides the information about the older and modern classification systems of angiosperms.
					CO4	The students will develop skills about the identification of angiosperm plants.
					CO5	It gives the students' knowledge about the herbarium preparation, botanical gardens and their use in form of tools for plant identification.
3	Plant Anatomy and Embryology	BOTA 201			CO1	This course deals with the study of basic internal organization of various plant parts, different tissues and secondary growth in plants.

			Discipline Specific Course (DSC)	B.SC 2nd Year	CO2	It helps to understand the detailed structure of flower and its various parts.
					CO3	The students will learn about the mechanism of pollination, double fertilization, embryo and seed development and polyembryony.
					CO4	The students will get knowledge about the various adaptations found in plants.
4	Plant Physiology and Metabolism	BOTA 202	Discipline Specific Course (DSC)	B.SC 2nd Year	CO1	It provides the knowledge about the various physiological life processes occurring in plants.
					CO2	The students can understand the detailed mechanisms of Photosynthesis, Respiration and translocation in plants.
					CO3	It helps in understanding the role of various hormones, signalling compounds, thermodynamics and enzyme kinetics.
					CO4	Students will gain knowledge about the various mechanisms such as channel or transport proteins involved in nutrient uptake in plants.
5	Biofertilizers	BOTA 203	Skill Enhancement Course (SEC)	B.SC 2nd Year	CO1	It will introduce the students about the biofertilizers and their advantages over chemical fertilizers.
					CO2	The students will develop skills about the preparations of different types of biofertilizers by using microorganisms such as Rhizobium, Aspergillum, Frankia and Cyanobacteria.
					CO3	The students will gain knowledge about the green manuring, organic farming and Vermicomposting along with practical field applications
					CO4	This course will help students understanding the role of chemicals in detonation of physical, chemical and biological characteristics of soil and its main focus is on protection of environment.
6	Gardening and Floriculture	BOTA 204	Skill Enhancement Course (SEC)	B.SC 2nd Year	CO1	The students will enhance their skills in gardening operations such as soil preparation, sterilization, planting, mulching etc.
					CO2	It provides the knowledge about the garden designs, principles and types.

					CO3	It provides the knowledge about the garden designs, principles and types.
					CO4	It helps the students in understanding commercial floriculture and also Post harvest management of flower crops.
7	Economic Botany and Biotechnology	BOTA 301	Discipline Specific Elective Course (DSE)	B.SC 3rd Year	CO1	The course pertains to importance of cereals, pulses, beverages, oils and sugar, fiber yielding and medicinal plants.
					CO2	This helps in understanding the botanical characteristics, cultivation practices and uses of these plant products.
					CO3	This course also acquaints the students about the basic knowledge of plant tissue culture techniques and their applications in agriculture, horticulture and forestry.
					CO4	The students learn about the recombinant DNA techniques, gene transfer techniques and their applications in development of useful transgenic plants.
					CO5	It provides knowledge about the various biotechnological techniques such as Agarose Electrophoresis, Blotting techniques, DNA fingerprinting, DNA sequencing, PCR and RTPCR, ELISA and also human gene therapy.
8	Analytical Techniques in Plant Sciences	BOTA 302	Discipline Specific Elective Course (DSE)	B.SC 3rd Year	CO1	It helps in understanding the various techniques such as imaging and other related techniques.
					CO2	The students learn about cell fractionation, spectrophotometry, and chromatography.
					CO3	It imparts knowledge about uses of radioisotopes and knowledge of characterization of proteins and nucleic acids.
					CO4	It also helps in understanding the basic concept of biostatistics.
9	Cell and Molecular biology	BOTA 303	Discipline Specific Elective Course (DSE)	B.SC 3rd Year	CO1	The paper focuses on the cell and knowledge about structure of various cellular organelles.
					CO2	It helps to understand the organisation of cell membrane and cell wall in plants.

					CO3	It also provides knowledge about the molecular biology of genes and phenomenon of replication and transcription.
					CO4	Gain an understanding of genetic material and regulation of gene expression in prokaryotes and eukaryotes.
10	Bioinformatics	BOTA 304	Discipline Specific Elective Course (DSE)	B.SC 3rd Year	CO1	The students will be able to understand the basic concepts, aim and scope of bioinformatics.
					CO2	It helps to impart knowledge about databases, biological sequence databases.
					CO3	Students will gain knowledge about sequence alignments.
					CO4	Gain knowledge about molecular Phylogeny and applications of bioinformatics in drug discovery, drug designs and in crop improvements.
11	Genetics and Plant Breeding	BOTA 305	Discipline Specific Elective Course (DSE)	B.SC 3rd Year	CO1	This course Focuses on laws of inheritance, phenomenon of linkage, crossing over, mutations and chromosome aberrations.
					CO2	The students will learn about the breeding systems and modes of reproduction in plants.
					CO3	The course also makes students familiar with centre of origin and domestication of crop plants, genetic basis of inbreeding depressions and heterosis.
					CO4	It helps to understand role of biotechnology in crop improvement.
12	Medicinal Botany and Ethnobotany	BOTA 306	Skill Enhancement Course (SEC)	B.SC 3rd Year	CO1	The course introduces the basic concepts in Ethnobotany and role of tribal people in conservation of plant biodiversity.
					CO2	It helps in understanding the importance of ethnobotany in modern medicines and role of ethnic groups in protection of plant genetic resources.
					CO3	Students will learn research methodologies in Ethnobotanical studies.
					CO4	It provides knowledge about the legal aspects related to Ethnobotany.
					CO5	It also helps to understand about biopiracy and Intellectual Property Rights.

					CO1	The students will enhance their skills in cultivation technology and cultivation practices of edible mushrooms.
13	Mushroom Cultivation Technology	BOTA 307	Skill Enhancement Course (SEC)	B.SC 3rd Year	CO2	It gives knowledge about the nutritional and medicinal value of mushrooms.
					CO3	Students will be able to learn storage methods and different food preparations using mushrooms.
					CO4	It helps to understand the diseases and pests of mushrooms.

14. Bachelor of Science (B.Sc.) with Chemistry

i. Programme Outcome

Programme Outcome	
POs	On completion of the programme the students will be able to:
PO1	Apply knowledge in scientific concepts, fundamental principles and varied theories to extend their relevance in day-to-day life.
PO2	Build the foundation in the current trends of chemistry with experimental skills.
PO3	Make use research-based knowledge in multidisciplinary approaches.
PO4	Extend the role and need of the chemist in societal, environmental contexts and demonstrate the knowledge for sustainable development.
PO5	Plan and organize as a member or leader in the diverse team and ability to engage in independent life – long learning in the broadest context of technological change.

ii. Programme Specific outcome

PSOs	Programme Specific Outcomes
PSO1	Students learn to think scientifically, rationally, and independently.
PSO2	This programme makes students eligible to serve in DRDO, Defence, Public sector and Private sector.
PSO3	Students can join M.Sc. in Chemistry and other higher education programs.
PSO4	It develops research-oriented skills among students by providing basic knowledge of the subject.
PSO5	Students acquire laboratory skills, they become able to analyse, classify and characterize different Chemical compounds. They learn to handle various lab instruments and equipment.
PSO6	Learners learn to construct abstract models using appropriate chemical/mathematical tools.
PSO7	Students are eligible to face various competitive exams to choose a career.

iii. Course Outcome

Sr. No	Course Title	Course Code	Year	COs	Course Outcome
1	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	CHEM 101	I	CO1	This Course explains various atomic theories, Quantum mechanical model and Quantum numbers.
				CO2	The students learn and understand the preparation, properties and uses of various organic substances with emphasis on aliphatic hydrocarbons (alkanes, alkenes and alkynes)
				CO3	It elaborates the fundamentals of organic chemistry and stereochemistry.
				CO4	It introduces a framework for learning about electronic configurations of elements, Ionic, covalent bonding and MO theories.
2	States of Matter and Chemical Kinetics and Functional Organic Chemistry	CHEM 102	I	CO1	It derives and provides a deep understanding about kinetic theory of gases and properties of liquids and solids.
				CO2	Students will learn about Chemical Kinetics and various theories of reaction rates.
				CO3	It describes various method of preparation and chemical properties of alkyl halides, alcohols, phenols and ethers.
				CO4	It explains thoroughly the structure, properties and uses of Aromatic hydrocarbons, aldehydes and ketones (aliphatic and aromatic).
3	Solutions, Phase Equilibrium, Conductance, Electrochemistry & Organic Chemistry	CHEM 201	II	CO1	To develop understanding of ideal and non-ideal solutions, concept of Raoult's Law, drawing phase diagrams of one and two component system.
				CO2	To develop understanding of conductivity, Kohlrausch's law, conductometric titrations.
				CO3	To clear the concept of transference number by Hittorf's method and Moving Boundary method.
				CO4	To clear the basic concepts of electrochemistry including types of electrodes, EMF, concentration cells, Liquid junction potential.
				CO5	Develop critical thinking, problem solving and analytical capabilities.

				CO6	Preparation and reactions of carboxylic acids, their derivatives, concept of nucleophilicity, Aliphatic and aromatic amines, Name reactions and some organic conversions.
4	Chemistry of Main Group Elements, Chemical Energetics and Equilibria	CHEM 202	II	CO1	This course aims to clear the basic concepts of s block and p block elements of the periodic table, properties and reactions of compounds of these elements.
				CO2	It also explains the potential energy stored in the arrangements or bondings of atoms in a substance.
				CO3	This course is intended to provide students with the basic knowledge of chemical equilibrium and the factors that may affect a chemical equilibrium. It also explains the importance of chemical equilibrium in the day-to-day life.
5	Basic Analytical Chemistry (SEC 1)	CHEM203 (SEC)	II	CO1	This course is designed to introduce the students with Analytical chemistry, Analysis of soil, pH determination of soil. Analysis of water, determination of acidity and alkalinity and dissolved oxygen in sample of water, Introduction to complexometric titrations.
				CO2	The students are introduced to the complete knowledge of Chromatography and analysis of mixture of ions and paint components by chromatographic techniques.
				CO3	Analysis of cosmetics, types of cosmetics, study of phenolphthalein in trap cases and analysis of arson accelerators & gasoline.
6	Fuel Chemistry & Chemistry of Cosmetics & Perfumes (SEC 2)	CHEM204 (SEC)	II	CO1	It includes the study of energy resources, study of coal, lubricants including types and properties.
				CO2	This course is intended to provide students a general study and knowledge about the preparation of cosmetics and essential oils.
7	Polynuclear Hydrocarbons, Dyes, Heterocyclic	CHEM301	III	CO1	This course is expected to provide students a better understanding of the various theories and principles related to UV, IR and NMR spectroscopy.

	Compounds and Spectroscopy (UV, IR, NMR)				
				CO2	It explains preparation and properties of different types of dyes and heterocyclic compounds.
				CO3	It also provides an understanding of polynuclear hydrocarbons and their comparative properties with respect to benzene.
8	Industrial Chemistry and Environment	CHEM 302	III	CO1	It elaborates the production, uses, analysis, storage and hazards of industrial gases and inorganic chemicals.
				CO2	Students will learn about industrial metallurgy and various processes involved in it.
				CO3	It provides detailed knowledge about air and water pollution. Industrial waste management has been properly explained.
				CO4	It emphasis energy & environment, and gives an idea about nuclear pollution, biocatalysis and Green Chemistry.
9	Quantum Chemistry, Molecular Spectroscopy & Photochemistry	CHEM 303	III	CO1	It explains about quantum chemistry in detail starting from postulates to solutions of Schrodinger wave equation.
				CO2	Molecular Spectroscopy (rotational & vibrational) has been explained in detail.
				CO3	Students will have an idea of electronic spectroscopy including Raman, NMR and ESR spectroscopies.
				CO4	Students will have an understanding of Photochemistry (Photophysical & Photochemical phenomena).
10	Chemistry of Transition and Inner Transition Elements, Organometallic Compounds	CHEM 304	III	CO1	Students will have a clear understanding of d and f block elements, their properties and their complex formation tendencies.
				CO2	Students will understand the concept of organometallic compounds and their utility in everyday science.
				CO3	It explains the chemistry of coordination compounds, their bonding, stability and preference of bonding with ligands to give specific geometries.
11			III	CO1	It provides classification of various types of polymers.

	Polymer Chemistry	CHEM 305		CO2	Students will learn the identification, preparation, and properties of various types of polymers.
				CO3	It explains uses of polymers and their applications in diverse fields.
12	Molecules of Life	CHEM 306	III	CO1	It explains bioinorganic chemistry with emphasis on lipids.
				CO2	Students will learn about classification, synthesis and structures of amino acids, peptides and proteins.
				CO3	It imparts detailed knowledge about enzymes and their correlation with drug action.
				CO4	Students will have an idea of different nucleic acids and the structures of DNA & RNA. They will learn about the concept of energy in biosystems.
13	Chemical Technology and Society & Business Skills for Chemistry	CHEM307 (SEC)	III	CO1	It explains the use of chemical technology in society.
				CO2	It provides the understanding of basic business skill in chemistry and explain various terms used in chemical industry.
14	Pesticide Chemistry and Pharmaceutical	CHEM308 (SEC)	III	CO1	Explain the preparation and use of various pesticides used in our daily life.
				CO2	Explain the preparation and use of various medicines used in our daily life.

15. Bachelor of Science (B.Sc.) with Computer Science

i. Programme Outcome

Programme Outcomes	
POs	On completion of the programme the students will be able to:
PO1	The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics and Computer Science.
PO2	Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.
PO3	The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.
PO4	They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.
PO5	To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
PO6	The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.
PO7	To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

ii. Programme Specific outcome

PSO	Programme Specific Outcomes
PSO1	Scientific knowledge: Apply the knowledge of mathematics, science, and computing to the solution of complex scientific problems.
PSO2	Problem analysis: Identify, formulate, research literature, and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and applied sciences

PSO3	Design/development of solutions: Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PSO4	Conduct investigations of complex problems: User research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
PSO5	Modern tools usage: Create, select, and apply appropriate tools, techniques, resources, and modern computing facilities including prediction and modelling to complex scientific activities with an understanding of the limitations.
PSO6	Environment and sustainability: Understand the impact of the professional software engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO7	Professional Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the scientific practice.
PSO8	Professional Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the scientific practice.
PSO9	Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary environment.
PSO10	Communication: Communicate effectively on complex activities with the community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and communication.
PSO11	Project management: Demonstrate knowledge understanding of the scientific and management principles and apply the set one's own work, as a member and leader in a team, to manage projects and in interdisciplinary environments

iii. Course Outcome

Learning Outcomes–BSc. Computer Science				
Course Title	Course Code	Semester	CO	Learning Outcome
Problem solving using Computer	COMP101TH	1	CO 1	It Will Provide brief overview of SDLC Models to the students.
			CO 2	Be able to identify the real-life problems, able to develop flow charts and algorithms and programming approaches.
			CO 3	Develop and maintain problem-solving skills and also provides basic knowledge of computers.
			CO 4	Basic and Advance Python Programming language are used to solve real life Problems.
Software Lab using Python	COMP101PR	1	CO1	Apply language features including strings, lists, tuples, dictionaries, regular expressions
			CO2	Create and call functions.
			CO3	Create and manipulate files.
			CO4	To develop flow charts and algorithms to solve any real-life problems.
			CO5	Python Provides large number of graphics library which can be used to depict their problems visually.
Office Automation Tools	COMP102TH	1	CO1	Basic of MS Office/Open Office/Libre office
			CO2	To perform documentation and presentation skills.
			CO3	Input experimental data into Microsoft Excel.
			CO4	Generate simple and effective tables and graphs to describe experimental data in Microsoft Excel.
Office Automation Tools Lab	COMP102PR	1	CO1	It will Provide knowledge of basic Text formatting option using MS Word.
			CO2	use and analysis of numerical data using MS Excel.
			CO3	Understanding of Power Point Presentation to exchange ideas in better way.
Computer System Architecture	COMP201TH	2	CO1	Understanding of electronic circuits, Boolean algebra, Data representation and basic computer Arithmetic's
			CO2	Understanding of electronic circuits, Boolean algebra, Data representation and basic computer Arithmetic's
			CO3	The design of combinational and sequential circuits
			CO4	Basic of computer organization and Architecture

			CO5	Basics of CPU and arithmetic and logical microoperations along with I/O Organization
Data Base Management system	COMP202 TH	2	CO1	Understanding of database concepts, approaches and architecture of DBMS.
			CO2	Understanding of E-R and relational Models.
			CO3	Database design, functional dependencies and Normal Forms
Data Base Management system Lab	COMP202 PR	2	CO1	Understanding of My Access and My SQL.
			CO2	Understanding of DDL Commands.
			CO3	Understanding of DML Commands.
PHP Programming	COMP203 TH	2	CO1	Understanding of basic building blocks of PHP Programming
			CO2	Handling HTML Forms with PHP codes.
			CO3	Understanding of functions for Modular Programming Approach.
			CO4	Understanding of string manipulation and regular expression.
Operating System	COMP301 TH	3	CO1	Understanding of OS design strategies and types of OS.
			CO2	Understanding of OS Architecture
			CO3	Understanding of Process Management and Memory Management.
			CO4	Introduction to Linux Shell and shell scripting.
Data Structure and File Processing	COMP302 TH	3	CO1	Understanding the basics of Data structure
			CO2	Understanding of Searching algorithms
			CO3	Understanding of Physical devices.
			CO4	Understanding of basic File organization.
Data Structure and File Processing Lab	COMP302PR	3	CO1	Understanding to develop codes for Arrays.
			CO2	Understanding to develop codes for Stack and Queue.
			CO3	Understanding to develop codes for searching algorithms.
Software Engineering	COMP303 TH	3	CO1	Understanding of software Development Process.
			CO2	Apply new software models, techniques, and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their continuous professional development.
			CO3	Understanding of software requirement, Software configuration Management, Project Management and testing.
			CO4	Understanding of Basics of reverse Engineering

16. Bachelor of Science (B.Sc.) with Mathematics

i. Programme Outcome

Programme Outcome	
POs	On completion of the programme:
PO1	The learner will be able to relate the concept underlying standard applications of Mathematics.
PO2	The learner will have an understanding on basic pure and applied Mathematics and able to formulate the Mathematical arguments in logical manner
PO3	They can be able to illustrate Mathematical concepts effectively by oral, written, computing and graphical means
PO4	The learner will make use of the theories of Mathematics and their applications in real world problems
PO5	The learners can be able to identify the complex physical problems and apply the mathematical techniques to solve them

ii. Programme Specific outcome

iii. Course Outcome

S. No.	Course Title	Course Code	Nature of Course and Year	COs	Course Outcome
1	Differential Calculus	MATH 101TH	B. A/ B.SC 1st Year	CO1	Calculate the limit and examine the continuity of a function at point and different indeterminate forms of limit.
				CO2	Understand the consequences of various mean value theorems for differentiable function.
				CO3	Understand the concept of maximum and minimum behaviour of function of two variables.
2	Differential Equations	MATH 102TH	B. A/ B.SC 1st Year	CO1	Find the complete solution of non-homogeneous differential equations as a linear combination of complementary function and a particular solution.
				CO2	Learn various methods of getting exact solution of first order and higher order differential equations.
				CO3	Have a working knowledge of basic application problems of second order differential equation with constant coefficients.
3	Real Analysis	MATH 201TH	B. A/ B.SC 2nd Year	CO1	Recognize bounded, convergent, divergent, Cauchy's and Monotonic sequences and to calculate their limit superiors and inferior and limit of bounded sequence.
				CO2	Understand many properties of real line and learn to define sequence of real numbers.

				CO3	Apply the ratio test, alternating test and limit comparison test for convergence and absolute convergence of an infinite series of real numbers.
				CO4	Recognize the difference between point wise and uniform convergence of sequence of functions.
4	Algebra	MATH 202TH	B. A/ B.SC 2nd Year	CO1	Understand the basic concept of groups and their properties.
				CO2	Understand the importance of algebraic properties with regards to working within various number systems.
				CO3	Understand the fundamental concept of ring theory such as concept of ideals, quotient rings, integral domain and fields.
5	Logic and sets	MATH 307TH	B. A/ B.SC 2nd Year	CO1	Analyze logical proposition via truth table.
				CO2	Draw and interpret Venn diagrams of set relations and operations and use Venn diagram to solve the problems.
6	Analytical Geometry	MATH 308TH	B. A/ B.SC 2nd Year	CO1	Define the techniques for sketching parabola, ellipse and hyperbola.
				CO2	Understand the concept of classification of quadratic equations representing lines, parabola etc.
				CO3	Reorganized the concept of illustrations of graphing standard quadratic surfaces like cone, ellipsoid.
7	Integral Calculus	MATH 309TH	B. A/ B.SC 2nd Year	CO1	Understand the concept of integration of rational and irrational functions and properties of definite integral.
				CO2	Calculate the length of an arc of a curve when equation are given in parametric and polar form.
				CO3	Evaluate the area of surface of revolution.
				CO4	Determine the area and volume by applying the techniques of double and triple integral.
8	Vector Calculus	MATH 310TH	B. A/ B.SC 2nd Year	CO1	Memorize the definition of scalar and Vector product of three vectors, product of four vectors and reciprocal of vectors.
				CO2	Understand the concept of gradient divergence and curl of vectors.
				CO3	Understand the concept of Green's theorem to evaluate the line integral along simple closed contours on the plane.
				CO4	Apply gradient to solve problems involving normal vectors to level surfaces.
9	Boolean algebra	MATH 311TH	B. A/ B.SC 2nd Year	CO1	Define Definition, examples and basic properties of ordered sets and duality principle.
				CO2	Understand the concept of lattices as ordered sets, complete Lattices and lattices as algebraic structures.
				CO3	Recognize the concept of Boolean algebra and Boolean polynomials.
10				CO1	Define and interpret the concept of divisibility, congruency, prime and prime factorization.

	Number Theory	MATH 312TH	B. A/ B.SC 2nd Year	CO2	Explain lame's theorem, fundamental theorem of arithmetic.
				CO3	Understand the concept of dirichlet product, the mobius inversion formula and Euler's phi function.
11	Matrices	MATH 301TH	B. A/B.SC 3rd Year	CO1	Define matrices, types of matrices, invariance of rank under elementary transformations.
				CO2	Recognize the system of linear equations, identify the existence of solutions and if there are solution, solve the equations.
				CO3	Understand the concept of matrix form of basic geometric transformations.
12	Mechanics	MATH 302TH	B. A/B.SC 3rd Year	CO1	Have a deep understanding of Newton's Law's.
				CO2	Learn about the condition and of equilibrium of particle and of coplanar forces acting on a rigid body.
				CO3	State the laws of friction.
				CO4	Learn about the work and potential energy.
				CO5	Understand the concept of simple harmonic motion and projectile motion.
13	Linear Algebra	MATH 303TH	B. A/B.SC 3rd Year	CO1	Solve the systems of linear equations.
				CO2	Understand the concept of dual space, dual basis, Eigen values, and Eigen vectors.
				CO3	Recognize the concept of terms linear span, linear independence, dependence, basis and dimensions and apply these concepts to various vectors spaces and sub spaces.
				CO4	Use matrix algebra and related matrices to liner transformations.
14	Numerical Methods	MATH 304TH	B. A/B.SC 3rd Year	CO5	Understand the concept of isomorphism and use of the theorems based on isomorphism.
				CO1	Obtain the numerical solutions of algebraic and transcendental equations using an appropriate numerical method.
				CO2	Establish the limitations, advantages and disadvantage of numerical methods.
15	Complex Analysis	MATH 305TH	B. A/B.SC 3rd Year	CO3	Solve initial and boundary value problem in differential equations using numerical methods.
				CO1	Have deep knowledge of limit involving the point at infinity, continuity, properties of complex numbers.
				CO2	Recognize the concept of analytic functions, contours, contour integrals.
16	Linear Programming	MATH 306TH	B. A/B.SC 3rd Year	CO3	State cauchy's- Goursat theorem, liouville's theorem's etc.
				CO1	Describe graphical approach for solving some linear programs, theory of simplex method and their comparison.
				CO2	Explain duality, formulation of the dual problems primal- dual relationships and economic interpretation of the dual.
17				CO1	Recognize the role of probability theory.

	Probability and Statistics	MATH 313TH	B. A/B.SC 3rd Year	CO2	Define and illustrate the concept of sample space, events and compute the probability of events and use bay's rule.
				CO3	Understand the concept of discrete and continuous random variable.
				CO4	Understand the use of various methods to compute the probability of events.
18	Mathematical finance	MATH 314TH	B. A/B.SC 3rd Year	CO1	Have deep knowledge of interest (simple and compound), time value of money, inflation, and internal rate of return (calculation by bisection and networks Raphson methods.)
				CO2	Understand the concept of bond prices, floating rate bonds and immunization.
19	Mathematical modeling	MATH 315TH	B. A/B.SC 3rd Year	CO1	Understand the concept of free damped motion, forced motion and resonance phenomena etc.
				CO2	Define the application to traffic flow. Conduction of heat in solid and conservation laws.
20	Theory of Equations	MATH 316TH	B. A/B.SC 3rd Year	CO1	Understand the concept of general properties and graphical representation of polynomials.
				CO2	Define symmetric function and applications of symmetric function of the roots.
				CO3	Understand the relation between roots and the coefficients of equation and solution of cubic and biquadrate equations with the help of car den's method and Descartes method.
21	Transportation and game theory	MATH 317TH	B. A/B.SC 3rd Year	CO1	Understand the transportation problem and its mathematical formulation.
				CO2	Define Vogel approximation method for determination of starting basic solution.
				CO3	Understand the concept of game theory involving formulation of the person zero sum games and games with mixed strategies.
22	Graph Theory	MATH 318TH	B. A/B.SC 3rd Year	CO1	Describe and demonstrate basic properties of graphs.
				CO2	Describe the concept of isomorphism of graphs, Hamiltonian cycles, and weighted graph.
				CO3	Understand the concept of shortest path, Dijkstra's algorithm and Floyd war shall algorithm.
23	Portfolio Optimization	MATH 319TH	Generic Elective B.A 3rd Year	CO1	Explain technical terminologies essential for the understanding of portfolio optimization including financial markets, investment objectives.
				CO2	Discriminate between different sources of risk and demonstrate the concepts of diversification.
				CO3	Demonstrate measure to evaluate a portfolio performance.
24	Queuing and Reliability Theory	MATH 320TH	Generic Elective B.A 3rd Year	CO1	The basic concept of queueing system.
				CO2	The basic of reliability, classes of distribution and reliability models.
				CO3	Reliability of a system and mean time before failure and hazard rate of exponential and kleibul distributions.

25	Descriptive Statistics and Probability Theory	MATH 321TH	Generic Elective B.A 3rd Year	CO1	Acquaintance with various methods of collecting data and get familiar with some elementary methods of data viz Measures of central tendency, dispersion, Skewness and kurtosis and to interpret them.
				CO2	Understanding the concept of probability and to find probabilities of various events.
				CO3	Understanding the concept of correlation and regression, Karl Pearson coefficients of correlation and lines of regression.
				CO4	Organize, manage and present data.
26	Sample Surveys and Design of experiments	MATH 322TH	Generic Elective B.A 3rd Year	CO1	Understand the basic knowledge of complete enumeration and sample, sampling frame, sampling, and non- sampling errors.
				CO2	Understand the basic terms used in design of experiments.
				CO3	Knowledge about comparing various sample techniques.
				CO4	Use appropriate experimental design to analyse the experimental data.

17. Bachelor of Science (B.Sc.) with Physics

i. Program Outcome

Programme Outcome

PO1	Producing graduates who are well acquainted with the fundamentals of Physics and requisite skills, in order to use their knowledge in Physics in a wide range of practical applications.
PO2	Developing creative thinking and the power of imagination to enable graduates work in research in academia and industry for broader applications.
PO3	Relating the training of Physics graduates to the employment opportunities within the country.
PO4	To promote societal values through Physics related activities.

ii. Programme Specific outcome

Programme Specific Outcomes

PSO	Programme Specific Outcomes
PSO1	To make students aware of basic principles, laws and Mathematical analysis of various concepts in physics.
PSO2	To explain various theories behind various phenomenon of nature and universe.
PSO3	To make students understand working, working principle of various devices, electric circuits, electronic circuits used in today's world.
PSO4	To inculcate scientific temper and encourage contribution in scientific development.
PSO5	To impart basic training through practical on various electric, electronic, digital and mechanical devices.
PSO6	To encourage Innovative ideas through Projects based on theories, concepts and practical by students.
PSO7	To encourage students for research in Physics and take up career in Scientific research of national and international importance.

iii. Course Outcome

S.No.	Course Title	Course Code	Class	COs	Course Outcome
1	Mechanics	PHYS101	B.SC 1st Year	CO1	To impart knowledge about various aspects of mechanics.
				CO2	Application of principles in terrestrial world development.
				CO3	Applications of theory of relativity in astronomy and space science.
2	Electricity, Magnetism and EMT	PHYS102	B.SC 1st Year	CO1	To impart knowledge about static electricity with applications in science.
				CO2	To make aware about various principles of current electricity and its applications.
				CO3	To make students aware of Magnetic effects of current and applying it to science.
				CO4	To develop interest in concept of em waves. role of em waves in science today.
				CO5	Em waves and understanding universe.
3	Statistical and Thermal Physics (DSE)	PHYS201	B.SC 2nd Year	CO1	To train students in statistical methods.
				CO2	To use Statistical phenomenon in thermal applications of solids and gases.
				CO3	To impart knowledge about various devices and making use of thermodynamics.
4	Waves and Optics (DSE)	PHYS202	B.SC 2nd Year	CO1	To impart knowledge about waves & oscillations.
				CO2	Applications of waves & oscillations to solids.
				CO3	To make students understand basic concept of optics.
				CO4	Applications of concepts of optics in explaining various phenomenon of nature and astronomical phenomenon.
5	Physics Workshop Skills (SEC)	PHYS203	B.SC 2nd Year	CO1	To enable the students to get familiar with various mechanical and electrical tools.
				CO2	Applications of with various mechanical and electrical tools through hands-on mode.
6	Computational Physics (SEC)	PHYS204	B.SC 2nd Year	CO1	To make students aware of basics of computer programming.
				CO2	To impart Knowledge of Numerical analysis and its use in computation physics.
				CO3	To emphasize its role in solving problems in Physics.
7	Electrical Circuits and Network Skills (SEC)	PHYS205	B.SC 2nd Year	CO1	To enable the students to design the electrical circuits and networks.
				CO2	To understand trouble shoots in electrical circuits, networks, and appliances.
				CO3	Hands-on mode applications.
8	Basic Instrumentation	PHYS206	B.SC 2nd Year	CO1	This course is to get Exposure with various aspects of instruments and their usage through hands-on mode.

	Skills (SEC)				
9	Elements of Modern Physics (DSE-1 A)	PHYS301	B.SC 3rd Year	CO1	To make students aware of basic principles of micro world.
				CO2	To differentiate micro from macro world.
				CO3	To explains facts through application of these principles.
				CO4	To explains atomic energy.
10	Solid State Physics and Electronics (DSE-1 A)	PHYS302	B.SC 3rd Year	CO1	To make students aware of basics of solid structure.
				CO2	To impart knowledge about application in designing various electronic circuits.
				CO3	To tell students about various solid-state devices and their role in development in science and applications.
11	Astronomy and Astrophysics (DSE-1 A)	PHYS303	B.SC 3rd Year	CO1	To explains basic principles of Astronomy.
				CO2	To impart knowledge about astronomical events.
				CO3	To develop interest in understanding universe.
12	Nuclear and particle Physics (DSE-1 B)	PHYS304	B.SC 3rd Year	CO1	To make student aware of nucleus and it' constituents and models to explain nucleus.
				CO2	To make students understand various underlying principles that explain nuclear properties.
				CO3	To make students aware of its applications in nuclear energy and origin of solar energy.
				CO4	To tell students about elementary particle and its applications to unfold mysteries of universe.
13	Quantum Mechanics (DSE-1 B)	PHYS305	B.SC 3rd Year	CO1	To make students aware of basic principles of micro world.
				CO2	To differentiate micro from macro world.
				CO3	To explains facts through application of these principles.
				CO4	To explains atomic energy.
14	Physics of Devices and Instruments (DSE-1 B)	PHYS306	B.SC 3rd Year	CO1	To imparts knowledge about various Electric and electronic devices.
				CO2	To make students understand power supply and its principles on how it works.
				CO3	To make students understand Working of communication systems.
15	Radiation Safety (SEC-2)	PHYS307	B.SC 3rd Year	CO1	To Make students aware of radiation hazards.
				CO2	To make them understand ill effects of radiation Exposure.
				CO3	To make students aware of radiation safety procedures and techniques.
				CO4	To explain safe use of radiation equipment in medical and other applications.

16	Applied Optics (SEC-2)	PHYS308	B.SC 3rd Year	CO1	Skill based Project or Dissertation work on any topic of syllabus for Analytical skill/ Problem solving.
17	Weather Forecasting (SEC-2)	PHYS309	B.SC 3rd Year	CO1	To make the students aware of theoretical principles in weather phenomenon.
				CO2	To enable them to develop awareness and understanding regarding the causes and effects of different weather phenomenon.
				CO3	To make them understand basic forecasting techniques.
18	Renewable Energy and Energy Harvesting (SEC-2)	PHYS310	B.SC 3rd Year	CO1	To impart knowledge about primary sources and secondary sources of Energy.
				CO2	To impart knowledge about various harvesting techniques.
				CO3	To provide them with Exposure and hands-on learning.
				CO4	To enable students, develop better harvesting methods for betterment of society.

18. Bachelor of Science (B.Sc.) with Zoology

Programme Outcomes

POs	Program Outcomes
	The students having completed BSc in Life sciences will be able to :
PO 1.	Understand the basic principles and have knowledge about the methodologies of science.
PO 2.	Understand the basic concepts of science subjects i.e. chemistry , botany zoology and environment science etc.
PO 3.	Develop critical thinking and logical analysis about the problems and also to find out the solutions in a scientific manner.
PO 4.	Develop the ability to communicate, discuss and innovate in the field of science.
PO 5.	Understand the issues of environment, utilization of natural resources and sustainable development in the context of the modern era.
PO 6.	Have knowledge about different career options in the science stream according to their interests, potentials and hard work.

Program Specific Outcomes

PSOs	Program Specific Outcomes
	After successful completion of this course , the students will be able to :
PSO 1.	Understand the nature and basic concepts of animal diversity, comparative anatomy of vertebrates , developmental biology of vertebrates, physiology , biochemistry, genetics , evolutionary biology, medical diagnostics, apiculture, animal biotechnology, reproductive biology, sericulture and aquarium fish keeping.
PSO 2.	Have knowledge about the diversity of animals and their distribution in different habitats of the world.
PSO 3.	Have information about morphology, anatomy , physiology and histology of animals
PSO 4.	Gain knowledge about the importance of conservation of threatened animal species
PSO 5.	Have understanding about the adaptations of animals to different habitats and their evolutionary relationships.
PSO 6.	Develop ability in application of acquired knowledge to applied zoology for making a self-reliant nation.
PSO 7.	Have knowledge about skill development courses like beekeeping, silkworm rearing and aquarium fish keeping which will help them to entrepreneurship and become self-sufficient economically.
PSO 8.	Gain knowledge about the research methodologies , effective communication, presentation and problem solving skills
PSO 9.	To evaluate and identify their own values, beliefs and actions in relation to social and professional standards of ethics and their impacts on the biosphere.
PSO 10.	Understand the importance of population control, harms of overexploitation of natural resources and benefits of sustainable development.
PSO 11.	Have knowledge about various job opportunities in the field of zoology and can pursue a career according to their own potentials, skills and interests.

S.N.	Course Title	Course Code	Class	Course Type	COs	Course Outcome
1a.	Animal Diversity	ZOOL101 TH	BSc 1st Year	DSC	CO 1.	Understand the taxonomy and classification of the whole animal kingdom into various categories / ranks of classification such as phylum, class, order, genus and species etc.
					CO 2.	Have knowledge about taxonomic position, identification and characters of animals belonging to different species.
					CO 3.	Have knowledge among invertebrates about the locomotion in protozoa, canal system in porifera (sycon), polymorphism in coelenterata, life history of tapeworm (platyhelminthes), life history and parasitic adaptations in ascaris (nematelminthes), metamerism in annelida, vision in arthropoda, metamorphosis in insects (arthropoda), torsion in mollusca and water vascular system in echinodermata.
					CO 4.	Understand the subdivision of phylum chordata into lower chordates (Protochordates) and higher chordates (Euchordates) with 7 major classes such as cyclostomata, chondrichthyes, osteichthyes, amphibia, reptilia, aves and mammalia.
					CO 5.	Understanding among vertebrates about osmoregulation in fishes (pisces), parental care in amphibia, poisonous & non-poisonous snakes. biting mechanism in snakes (reptiles), flight adaptations in birds (aves) and origin of mammals.
1b.	Animal Diversity	ZOOL101 PR	BSc 1st Year	DSC	CO 1.	Learn the identification of animals including invertebrates and chordates from study of specimens, models, charts and slides in zoology lab.
					CO 2.	Learn to make the diagrams, write classification and unique characters of animals in a practical manual.
					CO 3.	Learn to make a project work on fauna / diversity of animals in a particular area.
2a.	Comparative Anatomy and Developmental Biology of	ZOOL102 TH	BSc 1st Year	DSC	CO 1.	Have knowledge about the comparative account of vertebrates from class cyclostomata to mammalia.
					CO 2.	Understand various systems of vertebrates : derivatives & glands of integumentary system; evolution of visceral arches; alimentary canal & associated digestive glands; respiratory organs- gills, lungs, air sacs & swim bladder ; evolution of heart & aortic arches; succession of kidneys & evolution of urinogenital ducts; comparative account of brain; and types of

	Vertebrates					receptors / sense organs.
					CO 3.	Gain knowledge about early embryonic development in vertebrates : gametogenesis (mammals), vitellogenesis (birds), types and mechanism of fertilization.
					CO 4.	Understanding early development in frogs and humans: structure of gametes (ovum & sperm), patterns & types of cleavage, blastulation, gastrulation (types of morphogenetic movements), fate maps and fate of germ layers.
					CO 5.	Have knowledge about late embryonic development in vertebrates : implantation of placenta in humans, formation & functions of human placenta, types of placenta, metamorphosis in frog and its hormonal regulation.
					CO 6.	Understand about control of development including intercellular communication, cell movements and cell death.
2b	Comparative Anatomy and Developmental Biology of Vertebrates	ZOOL102 PR	BSc 1st Year	DSC	CO 1.	Identify and have practical knowledge of disarticulated bones / skeletons of frog and rabbit ; and carapace & plastron of tortoises.
					CO 2.	Identify and have knowledge of whole mounts / sections of permanent slides of developmental stages of frog : cleavage, blastula, gastrula, neurula, tail bud stage, external gill stage and internal gill stage.
					CO 3.	Identify and have knowledge of different types of placenta with the help of slides / photomicrographs.
					CO 4.	Learn to make project work on human placenta with help of ultrasound scans
					CO 5.	Identify and have knowledge of gametes (sperm and ovum) of frog / rat / human with the help of slides / photomicrographs.
3 a	Physiology and Biochemistry	ZOOL201 TH	BSc 2nd Year	DSC	CO 1.	Have knowledge about the physiology of nervous system, muscular system, digestive system, respiratory system, excretory system, cardiovascular system, reproductive system and endocrine system.
					CO 2.	Understand about the structure of nerve fiber / neuron, skeletal muscle

						fiber, nephron / uriniferous tubule, heart, thyroid gland , pituitary gland, adrenal gland, parathyroid gland and pancreas.
					CO 3.	Gain knowledge about origin and propagation of nerve impulse; mechanism & molecular / chemical basis of muscle contraction; digestion & absorption of various types of food in alimentary canal with hormonal control ; transport of gasses (oxygen & carbon dioxide) in blood, respiratory volumes & capacities; mechanism of urine formation, counter-current mechanism; composition of blood, origin and conduction of cardiac impulse & cardiac cycle; physiology of male & female reproduction with hormonal control ; and functions of endocrine glands.
					CO 4.	Have knowledge about metabolism of carbohydrates : glycolysis, kreb cycle, pentose phosphate pathway, gluconeogenesis, glycogenolysis and electron transport chain.
					CO 5.	Have knowledge about metabolism of lipids: oxidation of fatty acids & glycerol.
					CO 6.	Have knowledge about metabolism of proteins : transamination, deamination and urea cycle.
					CO 7.	Understand the properties of enzymes, mechanism of action, inhibition and regulation
3b.	Physiology and Biochemistry	ZOOL201 PR	BSc 2nd Year	DSC	CO 1.	Learn the methods of preparation of temporary slides : hemin crystals & hemochromogen crystals.
					CO 2.	Learn the qualitative tests for identification of carbohydrates: glucose, fructose, sucrose, lactose and starch.
					CO 3.	Learn the estimation of proteins by Lowry's method
					CO 4.	Learn the methods of knowing action of salivary amylase on substrate under optimal conditions and also effects of change in pH & temperature on activity of enzymes.
4a.	Genetics and Evolutiona	ZOOL202 TH	BSc 2nd Year	DSC	CO 1.	Understand about the laws of genetics : molecular basis, Medelian inheritance, modifications of Medelian inheritance / non-Mendelian inheritance- complementary genes, supplementary genes, inhibitory genes,

	ry Biology					epistasis, codominance , incomplete dominance, multiple alleles, lethal alleles & pleiotropy; extrachromosomal inheritance; and sex-linked inheritance.
					CO 2.	Gain knowledge of linkage, crossing over and chromosomal mapping.
					CO 3.	Have knowledge of types of mutations: chromosomal mutations (structural and numerical) ; gene mutations (transition, transversion & frameshift).
					CO 4.	Understand the types of sex determination
					CO 5.	5. Have knowledge about origin & evolution of life : history of life, theories of evolution (Lamarckism, Darwinism and Neo-Darwinism) ; evidences of organic evolution (morphological , anatomical, embryological, paleontological , biochemical, cytological and taxonomical); and types & dating of fossils.
					CO 6.	Gain knowledge about processes of evolutionary change : organic variations, isolating mechanisms, types of natural selection and artificial selection
					CO 7.	Understand biological species concept and modes of speciation; principles of evolution including microevolution & macroevolution.
					CO 8.	Have knowledge of extinction: causes, types, mass extinction and role of extinction in evolution.
4b.	Genetics and Evolutionary Biology	ZOOL202PR	BSc 2nd Year	DSC	CO 1.	Understand the laws of Mendel and non-Mendelian interactions; and verification of results with chi square test.
					CO 2.	Have knowledge of linkage, recombination and gene mapping.
					CO 3.	Gain knowledge about human karyotypes including both normal & abnormal types.
					CO 4.	Understand the evidence of evolution : fossil evidence with the help of models / pictures; and homologous & analogous organs from specimens / pictures.
					CO 5.	Have knowledge about evolutionary history: phylogeny of horse with diagrams / cut outs of limbs and teeth of horse ancestors ; and Darwin's finches with diagrams / cut outs of beaks of different species.

					CO 6.	Learn to make a project report on a visit to the natural history museum
5	Medical Diagnostic s	ZOOL303TH	BSc 2nd Year	SEC	CO 1.	Have knowledge about various diagnostic methods for analysis of blood and Urine.
					CO 2.	Understand the diagnosis, types, prevention & complications of non-infectious diseases (Diabetes & hypertension) and infectious diseases (Tuberculosis and Hepatitis) .
					CO 3.	Have knowledge about types of tumors and imaging diagnostic techniques (X-Ray, CT Scan, PET & MRI etc).
6.	Apiculture	ZOOL304 TH	BSc 2nd Year	SEC	CO 1.	Have knowledge about classification, biology and social organization of honey bees.
						Understand bee rearing methods, beehives, bee keeping equipments and extraction of honey.
					CO 2.	Have knowledge about bee diseases and enemies.
					CO 3.	Understand about uses & products of apiculture (honey, beeswax, propolis & bee venom etc)
					CO 4.	Have knowledge about entrepreneurship in apiculture
7a.	Animal Biotechnol ogy	ZOOL301 (B)TH	BSc 2nd Year	DSE	CO 1.	Understand the concept and scope of biotechnology: role in food, medicine, waste management, primary & secondary metabolites, vaccines and monoclonal antibodies etc.
					CO 2.	Have knowledge about various types of cloning vectors: plasmids, cosmids, phagemids, MAC, BAC, YAC and expression vectors etc.
					CO 3.	Gain knowledge about types of restriction enzymes; transformation techniques ; and construction & screening of genomic and cDNA libraries.
					CO 4.	Understand about types of molecular biology techniques : blotting techniques (southern, northern and western); DNA sequencing methods;

						Polymerase Chain Reaction / PCR; DNA fingerprinting; and DNA microarray techniques.
					CO 5.	. Understand about the genetically modified organisms (GMOs): cloned & transgenic animals with methods of production and applications ; and transgenic plants with their types, production methods and applications
					CO 6.	Have knowledge about: cell / tissue culture techniques and their applications (primary & secondary) ; molecular diagnosis of genetic diseases ; recombinant DNA techniques in medicine (production of insulin) ; and gene therapy.
7b.	Animal Biotechnology	ZOOL301 (B) PR	BSc 3rd Year	DSE	CO 1.	Learn the methods of: genomic DNA isolation from E.coli ; and plasmid DNA isolation (pUC 18/19) from E.coli.
					CO 2.	Learn the methods of : restriction digestion of plasmid DNA; construction of circular and linear restriction maps from the data provided; and calculation of transformation efficiency from the data provided.
					CO 3.	Learn the methods of molecular biology techniques : southern blotting, northern blotting, western blotting, DNA sequencing , PCR (polymerase chain reaction) and DNA fingerprinting.
					CO 4.	Learn to make project work on animal cell culture / other relevant topics from the coursework.
8a.	Reproductive Biology	ZOOL302 (C)TH	BSc 3rd Year	DSE	CO 1.	Understand about the endocrinology of reproduction : male and female gonadal hormones; mechanism and regulation of hormonal action; hypophyseal-gonadal axis; development & differentiation of gonads and genital ducts; and mechanism of sex differentiation.
					CO 2.	Gain knowledge about the functional anatomy of male reproductive system: outline and histology of male reproductive system (rat and human) ; spermatogenesis; androgen synthesis; hormonal regulation; accessory glands; sperm transportation and maturation.
					CO 3.	Have knowledge about the functional anatomy of female reproductive system : outline and histology of female reproductive system (rat and human); reproductive cycles (rat and human) and their regulation; synthesis, secretion and regulation of female sex hormones; ovulation, & corpus luteum

						formation; ovum transport and sperm transport in female genital tract; fertilization and implantation; mechanism and regulation of gestation; and parturition and lactation.
					CO 4.	Understand about reproductive health: causes of infertility in male and female; diagnosis and management ; assisted reproductive techniques -IVF, ET, EFT, IUT, ZIFT, GIFT, ICSI, PROST; and modern contraceptive technologies.
					CO 5.	Have knowledge about demographic terms used in family planning
8b.	Reproductive Biology	ZOOL302 (C) PR	BSc 3rd Year	DSE	CO 1.	Learn about animal houses: set up, maintenance, breeding techniques, care of normal & breeding animals.
					CO 2.	Understand about the surgical techniques : principles of surgery, ovariectomy , hysterectomy, tubectomy and castration.
					CO 3.	Learn the identification of various parts of the reproductive system from histological sections of slides / photomicrographs (rat and human) : testis, epididymis, vas deferens, copulatory organ, accessory glands in male ; and ovary, fallopian tube, uterus, cervix and vagina in female.
					CO 4.	Learn the methods of studying vaginal smear of rats and human vaginal exfoliative cytology
					CO 5.	Learn the methods of knowing and calculating sperm motility and sperm count (rat).
					CO 6.	Learn the methods of applying modern contraceptive devices for birth control
9	Sericulture	ZOOL303 TH	BSc 3rd Year	SEC	CO 1.	Have knowledge about the history of sericulture, silk routes, types / species of silkworms and races.
					CO 2.	Understand the life cycle of silkworm and silk glands.
					CO 3.	Have knowledge about rearing of silkworms, rearing houses, appliances,disinfectants, mountains, harvesting & storage of cocoons.

					CO 4.	Understand various diseases and pests of silkworms
					CO 5.	Have knowledge about Entrepreneurship in sericulture and silk industry
10	Aquarium Fish Keeping	ZOOL304 TH	BSc 3rd Year	SEC	CO 1.	Understand types of Aquarium Fish Keeping and types of exotic & endemic species . Scope of aquarium o fish cottage industry
					CO 2.	Have knowledge about the biology of various types of aquarium fishes.
					CO 3.	Understand about the food and feeding of aquarium fishes.
					CO 4.	Have knowledge about types of packing and transport of aquarium fishes.
					CO 5	Understand about maintenance of fish aquarium

Programme Outcomes (Pos) for Bachelor of Vocation in Hospitality & Tourism

Introduction

Bachelor of Vocation (B.Voc - Tourism and Hospitality Management) is a three-year Degree program with multiple exits/entries such as Diploma /Advanced Diploma relating to tourism, travel and Hospitality. The course would provide adequate knowledge and skills for employment in the industry.

Key Components of B.Voc Hospitality and Tourism

PO 1: Practical Training

- Outcome:** Hands-on experience is a cornerstone of vocational education, allowing students to apply theoretical knowledge in real-world scenarios.

PO2: Industry-Relevant Curriculum

- Outcome:** Tailored courses designed in collaboration with industries ensure that students learn the skills in demand.

PO3: Work-Based Learning

- Outcome:** Exposure to real work environments through internships and apprenticeships enhances the learning experience.

programme Specific Outcomes(PSOs) for Bachelor of Vocation in H&T

PSO 1: Mastery of Hospitality Operations

- **Outcome:** Graduates will master the key operational areas of the hospitality industry, such as front office operations, housekeeping, food and beverage management, and event planning.
- **Measurement:** Success in practical lab exercises, performance during internships, and assessments in operational management courses.

PSO 2: Expertise in Tourism Management

- **Outcome:** Graduates will demonstrate expertise in tourism management, including destination marketing, tour operations, and sustainable tourism practices.
- **Measurement:** Completion of tourism management projects, evaluations from internships at tourism agencies, and success in relevant coursework.

PSO 3: Advanced Customer Service Techniques

- **Outcome:** Graduates will apply advanced customer service techniques to enhance guest satisfaction and loyalty, utilizing effective communication and problem-solving skills.
- **Measurement:** Customer service simulation results, feedback from industry placements, and customer satisfaction surveys.

PSO 4: Sustainable and Ethical Practices Implementation

- **Outcome:** Graduates will implement sustainable and ethical practices within hospitality and tourism operations, contributing to environmental conservation and social responsibility.

- **Measurement:** Implementation and analysis of sustainability projects, ethical practice case studies, and performance in sustainability-focused courses.

PSO 5: Proficient Use of Industry Technology

- **Outcome:** Graduates will proficiently use contemporary technology and software applications specific to the hospitality and tourism industry for efficient management and operations.
- **Measurement:** Practical exams on industry software, technology integration projects, and continuous assessments of technological proficiency.

PSO 6: Financial and Revenue Management Skills

- **Outcome:** Graduates will apply financial management and revenue optimization techniques to enhance the profitability and financial stability of hospitality and tourism enterprises.
- **Measurement:** Financial analysis projects, budget management exercises, and revenue management simulations.

PSO 7: Leadership and Management Competence

- **Outcome:** Graduates will demonstrate strong leadership and management skills, capable of leading diverse teams and managing complex hospitality and tourism operations.
- **Measurement:** Leadership role evaluations, performance in management courses, and feedback from team-based projects.

PSO 8: Strategic Marketing and Sales Strategies

- **Outcome:** Graduates will develop and implement strategic marketing and sales strategies tailored to the unique needs of the hospitality and tourism sectors.
- **Measurement:** Marketing plan presentations, sales strategy assignments, and analysis of real-world marketing campaigns.

PSO 9: Comprehensive Legal Knowledge

- **Outcome:** Graduates will possess comprehensive knowledge of the legal aspects relevant to the hospitality and tourism industry, including contracts, liability, and regulatory compliance.
- **Measurement:** Legal case study analyses, written exams on hospitality law, and compliance audit projects.

PSO 10: Enhanced Analytical and Research Capabilities

- **Outcome:** Graduates will have enhanced analytical and research capabilities, enabling them to conduct thorough research and apply data-driven decision-making in hospitality and tourism contexts.
- **Measurement:** Research project completions, data analysis assignments, and success in courses focused on research methodology and analytics.

Implementation Strategy

To achieve these programme-specific outcomes, the curriculum will integrate a mix of theoretical knowledge and practical application through:

- **Classroom Instruction:** Core and elective courses focusing on various aspects of hospitality and tourism.
- **Practical Training:** Laboratory exercises, fieldwork, and simulated environments.
- **Internships:** Hands-on industry experience in various sectors of hospitality and tourism.
- **Projects and Case Studies:** Real-world applications of theoretical knowledge.
- **Industry Interaction:** Guest lectures, workshops, and industry visits.
- **Continuous Assessment:** Regular evaluations through exams, projects, and practical assessments.

By aligning the program structure and curriculum with these specific outcomes, graduates will be well-prepared to excel in the dynamic and diverse fields of hospitality and tourism.

Course outcome

Course Title: Guest Service Associate

Class: B.voc H&T Level-4 Semester -1st

Course Outcomes for Guest Service Associate

1. Proficiency in Customer Interaction

- **Outcome:** Graduates will demonstrate excellent customer interaction skills, including effective communication, problem-solving, and conflict resolution.
- **Measurement:** Role-playing exercises, customer service simulations, and feedback from practical training.

2. Understanding of Hospitality Operations

- **Outcome:** Graduates will have a thorough understanding of front office operations, including check-in/check-out procedures, reservation systems, and guest relations.
- **Measurement:** Performance in practical assessments, written exams on operational procedures, and successful completion of internships.

3. Mastery of Point-of-Sale Systems

- **Outcome:** Graduates will be proficient in using point-of-sale (POS) systems and other technology tools commonly used in hospitality settings.
- **Measurement:** Practical exams on POS system usage, technology skill assessments, and project work involving real-world scenarios.

4. Knowledge of Hospitality Industry Standards

- **Outcome:** Graduates will understand and adhere to industry standards and best practices in guest service, including hygiene, safety, and security protocols.
- **Measurement:** Compliance audits, written tests on industry standards, and practical evaluations during internships.

5. Effective Handling of Guest Complaints

- **Outcome:** Graduates will effectively handle guest complaints and feedback, utilizing appropriate techniques to ensure guest satisfaction and loyalty.

- **Measurement:** Case study analyses, role-playing exercises, and performance reviews from internships.

Course Title: Guest Service Executive
Class: B.voc H&T Level-5 Semester -2nd

1. Advanced Customer Service Skills

- **Outcome:** Graduates will demonstrate advanced customer service skills, ensuring exceptional guest experiences through effective communication, active listening, and empathy.
- **Measurement:** Customer feedback surveys, role-playing scenarios, and evaluations from practical training sessions.

2. Proficiency in Hospitality Operations

- **Outcome:** Graduates will be proficient in managing front office operations, including guest check-in/check-out, reservations management, and handling special requests.
- **Measurement:** Performance in practical assessments, successful completion of internships, and operational management exams.

3. Leadership and Team Management

- **Outcome:** Graduates will display strong leadership and team management abilities, capable of supervising staff, delegating tasks, and fostering a collaborative work environment.
- **Measurement:** Leadership role evaluations, peer reviews, and feedback from team-based projects and internships.

4. Expertise in Technology and Systems

- **Outcome:** Graduates will be adept at using hospitality management systems, including property management systems (PMS), point-of-sale (POS) systems, and customer relationship management (CRM) software.
- **Measurement:** Practical exams on system usage, technology integration projects, and continuous assessment of technological proficiency.

5. Conflict Resolution and Problem-Solving

- **Outcome:** Graduates will effectively resolve conflicts and address guest complaints, employing problem-solving techniques to maintain high levels of guest satisfaction.
- **Measurement:** Case study analyses, role-playing exercises, and performance reviews from practical training and internships.

Course Title: Duty Manager

Class: B.voc H&T Level-6 Semester -3rd & 4th

1. Leadership and Team Management

- **Outcome:** Graduates will demonstrate strong leadership and team management skills, capable of supervising and motivating staff to achieve high performance and ensure smooth operations.
- **Measurement:** Performance evaluations, peer reviews, and feedback from supervised projects and internships.

2. Comprehensive Operational Knowledge

- **Outcome:** Graduates will have a thorough understanding of the various operational aspects of a hospitality business, including front office, housekeeping, food and beverage, and maintenance.
- **Measurement:** Practical assessments, operational management exams, and successful completion of internships.

3. Customer Service Excellence

- **Outcome:** Graduates will provide exceptional customer service, effectively handling guest inquiries, complaints, and special requests to ensure guest satisfaction and loyalty.

- **Measurement:** Customer feedback surveys, role-playing scenarios, and practical training evaluations.

4. Crisis and Conflict Management

- **Outcome:** Graduates will manage crises and resolve conflicts efficiently, maintaining calm and effective operations during emergencies and resolving disputes to the satisfaction of all parties involved.
- **Measurement:** Crisis management simulations, conflict resolution case studies, and performance reviews from practical training and internships.

5. Financial Acumen

- **Outcome:** Graduates will possess financial management skills, including budgeting, cost control, and revenue management to ensure the financial health of the hospitality establishment.
- **Measurement:** Financial management exams, budgeting exercises, and financial project reports.

6. Regulatory Compliance and Safety Standards

- **Outcome:** Graduates will ensure compliance with health, safety, and legal regulations, maintaining a safe and legally compliant environment for both guests and staff.
- **Measurement:** Compliance audits, safety training assessments, and evaluations from regulatory scenario analyses.

Course Title: Front Office Manager

Class: B.voc H&T Level-7 Semester -5rd & 6th

1. Leadership and Team Management

- **Outcome:** Graduates will demonstrate effective leadership and team management skills, capable of supervising front office staff, fostering a positive work environment, and ensuring high performance.
- **Measurement:** Performance evaluations, peer reviews, and feedback from team-based projects and internships.

2. Comprehensive Front Office Operations Knowledge

- **Outcome:** Graduates will possess a thorough understanding of front office operations, including reservation management, check-in/check-out procedures, guest services, and night auditing.
- **Measurement:** Practical assessments, operational management exams, and successful completion of internships.

3. Customer Service Excellence

- **Outcome:** Graduates will deliver exceptional customer service, effectively addressing guest inquiries, complaints, and special requests to ensure high levels of guest satisfaction and loyalty.
- **Measurement:** Customer feedback surveys, role-playing scenarios, and practical training evaluations.

4. Effective Communication Skills

- **Outcome:** Graduates will exhibit strong verbal and written communication skills, enabling effective interaction with guests, staff, and management to ensure clear and efficient operations.
- **Measurement:** Communication skills assessments, role-playing exercises, and evaluation of written and oral presentations.

5. Crisis and Conflict Management

- **Outcome:** Graduates will effectively manage crises and resolve conflicts, maintaining calm and efficient front office operations during emergencies and resolving guest disputes to satisfaction.
- **Measurement:** Crisis management simulations, conflict resolution case studies, and performance reviews from practical training and internships.

6. Regulatory Compliance and Safety Standards

- **Outcome:** Graduates will ensure compliance with health, safety, and legal regulations, maintaining a safe and legally compliant front office environment for both guests and staff.
- **Measurement:** Compliance audits, safety training assessments, and evaluations from regulatory scenario analyses.

7. Professionalism and Ethical Conduct

- **Outcome:** Graduates will uphold professionalism and ethical conduct in all interactions, maintaining integrity, respect, and a positive attitude towards guests, colleagues, and management.
- **Measurement:** Professional behavior assessments, ethical scenario analyses, and continuous feedback from industry mentors and supervisors.