

# Learning Outcomes

<b>Humanities</b>		
<b>Economics</b>		
<b>Course Title</b>	<b>Course Code</b>	<b>Learning Outcomes</b>
<b>Principles of Micro Economics (I &amp;II)</b>	ECONA10 1& 102	<ul style="list-style-type: none"> <li>● Students will be able to understand fundamental principles to make prediction about consumer behaviour in certain situations involving economic or financial transactions.</li> <li>● The study of different laws like, Law of Demand and Supply, Laws of Utility, Laws of production helps in grasping the rationality of consumer's choices in different market.</li> <li>● The study of Micro economics is helpful in formulating economic policies that can enhance productive efficiency and results in greater social welfare.</li> <li>● Students can acquire the knowledge about the concept of maximisation of utility, profit and least cost combinations of factors of production.</li> </ul>
<b>Principles of Macro Economics (I&amp;II)</b>	ECONA 201&202	<ul style="list-style-type: none"> <li>● Students can understand various concepts of national income like, GDP, GNP and PCI besides the methods of calculation of national income.</li> <li>● Students shall acquire the knowledge of employment theories, economic depression, status of inflation and deflation</li> <li>● The study of Macroeconomics also familiarise the reader with the central issues and functioning of the economy as a whole.</li> <li>● Macroeconomics is helpful in formulation of economic policies, understanding and controlling trade cycles, and nature of material welfare.</li> <li>● Student can understand about the role of Macroeconomics in the formulation and successful implementation of the government policies.</li> </ul>
<b>Economics of Rural Development</b>	ECONA20 4	<ul style="list-style-type: none"> <li>● Students will be able to understand the basic features and central problems of the Rural economy.</li> <li>● Students can get acquainted with various programs and policies initiated by the central and state government for solving the problems of rural economy.</li> <li>● The migration problem of the labour class from the rural area to urban areas is prominent part for understanding.</li> <li>● Student can understand about the seriousness of rural indebtedness and its measures.</li> </ul>
<b>Demography</b>	ECONA20 6	<ul style="list-style-type: none"> <li>● Students can understand the nature, size and structure of Indian Population.</li> <li>● Students will be able to evaluate the use of demographic concepts and population theories to understand the contemporary socioeconomic issues and current affairs.</li> <li>● Students can acquire the knowledge of vivid concepts of demography like, birth rate, death rate, infant mortality rate, sex</li> </ul>

		<p>ratio, migration and immigration etc.</p> <ul style="list-style-type: none"> <li>● Students can understand the measures and determinants of demography.</li> </ul>
<b>Indian Economy</b>	ECONA301/314(GE)	<ul style="list-style-type: none"> <li>● Students will be able to develop ideas of the basic features of Indian economy, its potential on natural resources.</li> <li>● Students can understand the importance, causes and impact of population growth and its distribution.</li> <li>● Students can familiarise themselves with various economic systems like, capitalism, socialism, mixed economy, besides less developed countries and developed economies.</li> <li>● Students can understand the working mechanism of different sectors like, agriculture, industry and service sectors along with their contribution to the GDP.</li> </ul>
<b>Development Economics</b>	ECONA305	<ul style="list-style-type: none"> <li>● Develop the ability to explain core economic terms, concepts and theories.</li> <li>● Students shall be able to understand the function of the market and allocated mechanism of prices.</li> <li>● Students shall be able to apply the tools of economic analysis to the problems and challenges faced by less developed countries.</li> <li>● The readers can understand various approaches of economic development and relevance of these approaches in context to Indian economy.</li> </ul>
<b>Public Finance</b>	ECONA310	<ul style="list-style-type: none"> <li>● Students shall be able to learn about the sources of public and private finance besides principals of federal finance.</li> <li>● The learning outcomes of public finance also includes the understanding about the possible burden, benefits, and distribution of various taxes.</li> <li>● Students will be able to understand the concept of Budget preparation, its presentation and implementation.</li> <li>● Students can understand the process of public borrowings and impact of public expenditure.</li> </ul>
<b>Money and Banking</b>	ECONA311	<ul style="list-style-type: none"> <li>● Students will learn about the functions of various banks and the process of credit creation.</li> <li>● Students shall familiarise with the banking system habits of savings and investment.</li> <li>● Students shall be able to understand the role of monetary policy in controlling the problem of inflation and deflation.</li> <li>● Students can understand the functions of money, system of note issue and circulation of currency.</li> </ul>
<b>Economy of Himachal Pradesh</b>	ECONA313(GEC)	<ul style="list-style-type: none"> <li>● Students shall be able to understand the state sources of revenue and expenditure.</li> <li>● There shall be augmentation in the knowledge of the students by analysing the potential and contribution of tourism sector, horticulture and agriculture sector to the State Domestic Product/SDP.</li> <li>● Students can understand the income and employment potential of different hydro projects in the state.</li> <li>● Students will be able to understand the potential and threats of local manufacturers like, Kullu Handloom, Shawls, Stoles,</li> </ul>

Mufflers, Caps ad readymade garments.

**POLITICAL SCIENCE**

<b>COURSE TITLE</b>	<b>COURSE CODE</b>	<b>LEARNING OUT COME</b>
<b>B.A 1<sup>st</sup> COURSE -1 Introduction to Political Theory</b>	DSC-1A (POLS 101)	<ul style="list-style-type: none"> <li>• Distinguish systematic normative inquiry from other kinds of inquiry within the discipline of political science.</li> <li>• Identify the most important contributors to modern Western political thought and explain why their contribution are important.</li> <li>• Demonstrate the ability to apply abstract theory to concrete problems by using the ideas of political theorists to address contemporary social issues such as affirmative action ,pornography and capital punishment</li> </ul>
<b>COURSE -2 Indian Government and Politics</b>	DSC-1B( POLS 102)	<ul style="list-style-type: none"> <li>• Demonstrate knowledge about the significance of current issues of Indian politics</li> <li>• Analyze political and policy problems and formulate policy options.</li> <li>• Discuss and evaluate the institutional structure and operations of the major national and state political institutions.</li> </ul>
<b>B.A 2<sup>nd</sup> COURSE-3 Comparative Government and politics</b>	DSC-1C( POLS 201)	<ul style="list-style-type: none"> <li>• Discuss the theory and apply the methodology of comparative analysis within the discipline of political science.</li> <li>• Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.</li> <li>• Write an analysis of the institutions, political behaviour and political ideas of another country.</li> </ul>
<b>COURSE-4 Introduction to International Relation</b>	DSC-1D( POLS 202)	<ul style="list-style-type: none"> <li>• Identify the names and geographic location of most contemporary states.</li> <li>• Discuss the main international relations theories, and the values implicit in each of these different ways of looking at the world, thus giving them the tools necessary to understand the day –to-day events reported in the media.</li> <li>• Describe the role of individual and cultural values and perception, and the important of empirical evidence in analyzing international problems.</li> </ul>
<b>COURSE-5 Legislative Support</b>	SEC-1 (POLS 203)	<ul style="list-style-type: none"> <li>• Demonstrate an understanding of the policy making process by preparing a legislative history of a major law , including an analysis of the statement of Administration policy as well as all stages of the legislative process.</li> <li>• Play the role of a member of either institution in an in-class simulation with a high level of authenticity.</li> </ul>
<b>COURSE-6 Public Opinion and Survey Research</b>	SEC-2 ( POLS204)	<ul style="list-style-type: none"> <li>• Conduct a literature review for a question in political science research.</li> <li>• Design an elite interview protocol.</li> <li>• Write up research findings in correct format.</li> <li>• Present research findings to an audience using visual aids.</li> </ul>
<b>B.A 3<sup>RD</sup> COURSE-7</b>	DSE-1A POLS	<ul style="list-style-type: none"> <li>• Identify different political philosopher in India.</li> <li>• Discuss the role that symbols play in the Political process</li> </ul>

<b>Themes in Comparative Political Theory</b>	301(A)	
<b>COURSE-8 Democracy and Governance</b>	DSE-1B POLS 302(B)	<ul style="list-style-type: none"> <li>Analyze political and policy problems and formulate policy option</li> <li>Accountable ,legitimate ,responsive government</li> <li>Free and fair election</li> </ul>
<b>COURSE-9 Democratic Awareness Through Legal literacy</b>	SEC-3 POLS 303	<ul style="list-style-type: none"> <li>Compare and contrast the various theories of constitutional interpretation.</li> </ul>
<b>COURSE-10 Conflict and Peace building</b>	SEC-4 POLS 304	<ul style="list-style-type: none"> <li>Identify the core normative philosophy of the field of conflict and peace.</li> <li>Explain the cause of war at several levels of analysis.</li> <li>Describe and analyze cases in the past century in which conflict was resolved without violence.</li> </ul>
<b>COURSE-11 Society, economy and Politics in Himachal Pradesh .</b>	GE-1 POLS 305	<ul style="list-style-type: none"> <li>Awareness regarding social, cultural and politics of H.P.</li> <li>Discuss how political factors shapes the policy formulation and implementation.</li> <li>Discuss the political behaviors of social classes, racial and ethnic groups ,gender and religious society.</li> </ul>
<b>COURSE-12 Human rights Gender and Environment</b>	GE-2 POLS 306	<ul style="list-style-type: none"> <li>Concern about major issues of environmental politics.</li> <li>Describe the environmental policy making process ,including the influence of local constituencies on national decision makers.</li> <li>Compare and contrast environment politics with other nation.</li> </ul>

### **Sociology**

<b>Course Title</b>	<b>Course Code</b>	<b>Learning Outcomes</b>
<b>Introduction to Sociology</b>	SOCL-A 101	<ul style="list-style-type: none"> <li>Define Sociology and demonstrate nature, scope and subject matter of sociology.</li> <li>Acquaint themselves with the basic concepts of Sociology like Society, Community, Association, Culture etc.</li> <li>Demonstrate how sociology differ from and similar to other social sciences.</li> </ul>
<b>Society in India</b>	SOCL-A 102	<ul style="list-style-type: none"> <li>Learn about the concepts like Unity and Diversity.</li> <li>Know the basic social institutions like family, marriage and kinship in a scientific way.</li> <li>Realize the issues of Indian society like casteism, communalism etc..</li> </ul>
<b>Sociological Theories</b>	SOCL-A 201	<ul style="list-style-type: none"> <li>Define sociological theory and understand its features.</li> <li>Analyse the life and major work of Karl Marx.</li> <li>Explain the contribution of Emile Durkhiem and Max weber in the development of sociology</li> </ul>
<b>Methods of Sociological Enquiry</b>	SOCL-A 202	<ul style="list-style-type: none"> <li>Meaning, scope and significance of social research.</li> <li>Explain the fundamental steps of social research.</li> </ul>

		<ul style="list-style-type: none"> <li>Learn how to collect data.</li> <li>Describe sampling method and appropriate uses of each.</li> <li>Demonstrate knowledge of research process like reading, evaluating, developing.</li> </ul>
<b>Techniques of Social Research</b>	SOCL-A 203	<ul style="list-style-type: none"> <li>Define what reliability and validity mean in a research study.</li> <li>Explain how the scientific method is used in social research</li> </ul>
<b>Sociology of Environment</b>	SOCL-A 204	<ul style="list-style-type: none"> <li>Explain the concept of Environment and Society.</li> <li>Define Ecology and Eco system.</li> <li>Identify Environmental problems and the means for environmental awareness.</li> </ul>
<b>Social Demography</b>	SOCL-A 301	<ul style="list-style-type: none"> <li>Key concepts of Social Demography.</li> <li>Knowledge about theories of Population.</li> <li>Learn about the factors affecting Mortality and Fertility.</li> <li>Know the population policies in India.</li> <li>Explain the various social problems in India like Poverty, Slums etc.</li> </ul>
<b>Theory and Practice of Development</b>	SOCL-A 302	<ul style="list-style-type: none"> <li>Describe Social Development.</li> <li>Identify path of development.</li> <li>Explain developed, developing and under developing countries.</li> <li>Describe developmental planning and policies like PRI.</li> </ul>
<b>Social Stratification</b>	SOCL-A 305	<ul style="list-style-type: none"> <li>Explain social stratification , principle types of stratification system.</li> <li>Describe Caste and Class.</li> <li>Present theoretical perspective with reference to social stratification.</li> <li>Elaborate the types of social mobility.</li> </ul>
<b>Religion and Society.</b>	SOCL-A 303	<ul style="list-style-type: none"> <li>Define Religion and the functions of Religion.</li> <li>Know about the types of religion on India.</li> <li>Describe the features of Indian Religions ( HINDU , ISLAM,SIKH).</li> <li>Explain Secularism and Communalism.</li> </ul>
<b>Polity and Society in India</b>	SOCL-A 307	<ul style="list-style-type: none"> <li>Describe Political Sociology</li> <li>Understand the impact of social factors upon Politics.</li> <li>Explain State, Government and Bureaucracy.</li> <li>Participate in academic and professional discussion on Politics and society.</li> </ul>
<b>Economy and Society</b>	SOCL-A 308	<ul style="list-style-type: none"> <li>Know about the tricks of routine households and another economic practices.</li> <li>Understand the impacts of social factors upon Indian Economy.</li> </ul>

## HINDI

प्रयोजनमूलक हिन्दी	HIND-101	<ul style="list-style-type: none"> <li>व्यावहारिक, व्याकरणिक हिन्दी भाषा का शुद्ध प्रयोग वाचन और लेखन में करेंगे ।</li> <li>व्यावहारिक और व्यावसायिक पत्र लेखन में कुशलता प्राप्त करेंगे ।</li> <li>हिन्दी भाषा शब्द संपदा का शुद्ध प्रयोग वाचन और लेखन में प्रयोग करेंगे ।</li> <li>देवनागरी लिपि की विशेषताओं, वैज्ञानिकता व महत्त्व का वर्णन करेंगे ।</li> </ul>
--------------------	----------	---

		<ul style="list-style-type: none"> <li>• कम्प्यूटर में हिन्दी भाषा का प्रयोग, पारिभाषिक शब्दावली की स्पष्ट व्याख्या करेंगे।</li> <li>• कार्यालयी हिन्दी और अनुवाद की विशेषताएं, अनुवाद प्रक्रिया, समस्या व समाधान का वर्णन करेंगे।</li> <li>•</li> </ul>
हिन्दी साहित्य का इतिहास	HIND-102	<ul style="list-style-type: none"> <li>• हिन्दी साहित्य के इतिहास की दीर्घ परंपरा का कालनिर्धारण, विश्लेषण व वर्णन करेंगे।</li> <li>• हिन्दी साहित्य के विभिन्न कालों की सामाजिक, राजनीतिक एवं सांस्कृतिक पृष्ठभूमि की समीक्षात्मक व्याख्या करेंगे।</li> <li>• आदिकाल, भक्तिकाल, रीतिकाल और आधुनिक काल के साहित्य की प्रवृत्तियों एवं विशेषताओं का वर्णन करेंगे।</li> <li>• आधुनिक गद्य साहित्य की नवीन विधाओं के विकासक्रम के स्वरूप को स्पष्ट लिखेंगे।</li> <li>• राष्ट्रीय स्वतंत्रता संघर्ष में हिन्दी साहित्य के योगदान की व्याख्या करेंगे।</li> <li>• स्वतंत्र भारत के निर्माण में आधुनिक हिन्दी साहित्य की महत्वपूर्ण देन की व्याख्या करेंगे।</li> </ul>
मध्यकालीन हिन्दी कविता	HIND-103	<ul style="list-style-type: none"> <li>• मध्यकालीन हिन्दी कविता के आधार स्तम्भ कवियों के व्यक्तित्व एवं कृतित्व का सामान्य परिचय लिखेंगे।</li> <li>• मध्यकालीन हिन्दी कविता के कवियों की काव्य विशेषताओं का वर्णन करेंगे।</li> <li>• पद्यांशों की सप्रसंग व्याख्या करेंगे।</li> <li>• मध्यकालीन हिन्दी कविता साहित्य के महत्व व देन का वर्णन करेंगे।</li> <li>• काव्य के माध्यम से भक्ति, रीति और नीति का विश्लेषण करेंगे।</li> </ul>
हिन्दी भाषा और संप्रेषण	HIND-104	<ul style="list-style-type: none"> <li>• हिन्दी भाषा के व्याकरण का ज्ञान प्राप्त कर वाचन व लेखन में अनुप्रयोग करेंगे।</li> <li>• हिन्दी भाषा की व्याकरणिक विशेषताओं की व्याख्या करेंगे।</li> <li>• भाषा सम्प्रषेण के विविध चरणों का विश्लेषण एवं वर्णन करेंगे।</li> </ul>
अनिवार्य हिन्दी रचनापूज	HIND-201	<ul style="list-style-type: none"> <li>• हिन्दी काव्य के पद्यात्मक और गद्यात्मक साहित्यकारों के व्यक्तित्व एवं कृतित्व का सामान्य परिचय लिखेंगे।</li> <li>• मध्यकालीन और आधुनिक साहित्यकारों के साहित्य की प्रवृत्ति व विशेषताओं का वर्णन करेंगे।</li> <li>• काव्य पद्यांशों का सप्रसंग सरलार्थ एवं व्याख्या करेंगे।</li> <li>• कहानियों और निबंधों के गद्यांशों की सप्रसंग व्याख्या करेंगे।</li> </ul>
आधुनिक हिन्दी कविता	HIND-202	<ul style="list-style-type: none"> <li>• आधुनिक हिन्दी कवियों के व्यक्तित्व एवं कृतित्व का सामान्य परिचय लिखेंगे।</li> <li>• हिन्दी साहित्य के क्षेत्र में भारतेन्दु और अयोध्यासिंह उपाध्याय हरिऔध के योगदान की व्याख्या व काव्य विशेषताओं का वर्णन करेंगे।</li> <li>• द्विवेदी युगीन; छायावादी; प्रगतिवादी; प्रयोगवादी; कविता व साहित्यिक विचारधारा का विश्लेषण एवं काव्य विशेषताओं का वर्णन करेंगे।</li> <li>• आधुनिक हिन्दी कविता द्वारा भाषायी कौशलों का विकास।</li> <li>• कविता पद्यांशों की सप्रसंग व्याख्या और सार लिखेंगे।</li> </ul>
हिन्दी गद्य साहित्य	HIND-203	<ul style="list-style-type: none"> <li>• हिन्दी गद्य साहित्य विधा उपन्यास, कहानी, और निबंध की आधुनिक भाषा-शैली व गद्य की व्याख्या करेंगे।</li> <li>• हिन्दी गद्य साहित्य लेखकों का व्यक्तित्व एवं कृतित्व का सामान्य परिचय लिखेंगे।</li> <li>• जैनेन्द्र के मनोवैज्ञानिक उपन्यास की भाषा-शैली तथा नारी विषयक चिंतन की समीक्षा करेंगे।</li> <li>• हिन्दी कहानी विधा के तत्व, कथ्य व शिल्प का वर्णन एवं विश्लेषण करेंगे।</li> <li>• हिन्दी निबंध की वर्णात्मक, विचारात्मक, समास-व्यास एवं चिंतनपरक शैली का आलोचनात्मक वर्णन करेंगे।</li> </ul>
कार्यालयी हिन्दी	HIND-204	<ul style="list-style-type: none"> <li>• हिन्दी भाषा के विभिन्न रूपों तथा उन रूपों के सूक्ष्म भेदों-उपभेदों का वर्णन करेंगे।</li> <li>• राष्ट्रभाषा हिन्दी के विकासक्रम, वर्तमान स्वरूप की व्याख्या तथा हिन्दी के समक्ष व्यावहारिक कठिनाइयों एवं समाधान का विश्लेषण करेंगे।</li> <li>• कार्यालयों में प्रयुक्त हिन्दी भाषा में टिप्पण, प्रारूपण, पल्लवन, संक्षेपण और पत्राचार</li> </ul>

		<p>निष्पादन प्रक्रिया की व्याख्या करना और उसमें कुशलता प्राप्त करना।</p> <ul style="list-style-type: none"> <li>कार्यालयों में प्रयुक्त हिन्दी भाषा की पारिभाषिक शब्दावली के ज्ञान में अभिवृद्धि और कार्यालयी प्रयोजनों में विभिन्न यांत्रिक उपकरणों के अनुप्रयोग की व्याख्या करेंगे।</li> </ul>
हिन्दी भाषा शिक्षण	HIND-205	<ul style="list-style-type: none"> <li>भाषा शिक्षण के विविध संदर्भ और आधारभूत संकल्पनाओं, अवधारणाओं को समझना व स्पष्ट करना।</li> <li>भाषा शिक्षण की विधियों की व्याख्या और भाषा कौशलों का विकास।</li> <li>शिक्षण के विविध आयामों में हिन्दी भाषा का प्रयोग; सजातीय, विजातीय, विदेशी भाषा के रूप में हिन्दी शिक्षण की विशिष्टता की व्याख्या करेंगे।</li> <li>भाषा परीक्षण और मूल्यांकन की संकल्पना और प्रकारों को जानना तथा अनुप्रयोग करना।</li> </ul>
अनुवाद विज्ञान	HIND-206	<ul style="list-style-type: none"> <li>अनुवाद का अर्थ, प्रकार एवं शिल्पगत भेदों को परिभाषित व वर्णन करेंगे।</li> <li>अनुवाद के प्रमुख रूपों की व्याख्या तथा पर्यवेक्षण की भूमिका को स्पष्ट करेंगे।</li> <li>व्याकरणिक, वैज्ञानिक तकनीकी शब्दावली का अनुवाद। अनुवाद प्रविधि, अभिलक्षण एवं अनुवादक की अहर्ता का वर्णन करेंगे।</li> <li>हिन्दी अनुवादित कृतियों का अध्ययन, अनुवाद प्रशिक्षण केन्द्र, आवश्यकता और भविष्य का विश्लेषण करेंगे।</li> </ul>
संभाषण कला	HIND-207	<ul style="list-style-type: none"> <li>संभाषण का अर्थ समझना, संभाषण के विभिन्न रूपों और वाक्कला की उपयोगिता को स्पष्ट करना।</li> <li>संभाषण कला के प्रमुख उपादानों, विभिन्न रूपों के अनुप्रयोग में कौशल प्राप्त करना।</li> <li>वाद-विवाद प्रतियोगिता और समूह संवाद में संभाषण का वांछित प्रयोग करेंगे।</li> <li>लोक प्रशासन, जनसंपर्क एवं विपणन के विकास में संभाषण कला के महत्व व योगदान की व्याख्या करेंगे।</li> </ul>
ग आलेख एवं रंगमंच	HIND-301	<ul style="list-style-type: none"> <li>नाटक के प्रमुख प्रकार व नाटक के रचना विधान को जानना, विश्लेषित करना।</li> <li>हिन्दी नाट्यशास्त्र और नाट्य लेखन इतिहास को समझना तथा व्याख्या करना।</li> <li>हिन्दी के प्रमुख नाटक और नाटककारों, रंगमंच के प्रमुख रूपों, प्रसिद्ध रंगशालाओं एवं संस्थाओं से परिचित होना तथा उनका वर्णन करना।</li> <li>रंग शिल्प प्रशिक्षण, निर्देशन एवं अभिनय, रंग आलेख की प्रविधि और रंग समीक्षा का महत्व की व्याख्या करना तथा इनमें कौशल प्राप्त करना।</li> </ul>
समाचार संकलन और लेखन	HIND-304	<ul style="list-style-type: none"> <li>समाचार की अवधारणा, समाचार के स्रोत, संग्रह-पद्धति और लेखन प्रक्रिया का वर्णन करना।</li> <li>समाचार का वर्गीकरण व विश्लेषण करेंगे।</li> <li>रिपोर्टिंग के विभिन्न क्षेत्र और प्रकारों का वर्णन व व्याख्या करेंगे।</li> <li>इलेक्ट्रॉनिक माध्यमों से प्राप्त समाचारों का पुनर्लेखन करेंगे।</li> <li>लीड, शीर्षक का अर्थ, प्रकार व महत्व स्पष्ट करेंगे।</li> <li>समाचार संकलन और लेखन का कौशल प्राप्त करेंगे।</li> </ul>
लोक साहित्य	HIND-305	<ul style="list-style-type: none"> <li>लोक साहित्य, लोक संस्कृति की अवधारणा, परिभाषा व स्वरूप की विस्तृत व्याख्या करेंगे।</li> <li>लोक साहित्य के अध्ययन की प्रक्रिया, संकलन की समस्याओं का विश्लेषण एवं वर्णन करेंगे।</li> <li>लोक साहित्य के प्रमुख रूप लोक गीत, लोकनाट्य, लोककथा, और लोकगाथा के स्वरूप, प्रक्रिया, प्रवृत्ति, प्रस्तुति एवं महत्व को उदाहरण सहित स्पष्ट करेंगे।</li> <li>प्रसिद्ध लोकगाथाओं का सार संक्षेप, वर्णन और व्याख्या उदाहरण सहित लिखेंगे।</li> </ul>
छायावादोत्तर हिन्दी कविता	HIND-306	<ul style="list-style-type: none"> <li>छायावादोत्तर कवियों के व्यक्तित्व एवं कृतित्व का सामान्य परिचय लिखेंगे।</li> <li>छायावादोत्तर कवियों की प्रवृत्ति, काव्य विशेषताओं का वर्णन करेंगे।</li> <li>छायावादोत्तर कवियों की कविताओं की सप्रसंग व्याख्या करेंगे।</li> <li>छायावादोत्तर कवियों की कविताओं का सार और महत्व का वर्णन करेंगे।</li> </ul>
आधुनिक भारतीय साहित्य	HIND-307	<ul style="list-style-type: none"> <li>स्वाधीनता संग्राम और भारतीय नवजागरण का वर्णन, उसका भारतीय साहित्य पर हुए प्रभाव की व्याख्या करेंगे।</li> <li>भारतीय साहित्य और राष्ट्रीयता के अंतर संबंध का विश्लेषण करेंगे।</li> <li>महात्मा गांधी, महर्षि अरविन्द और मार्क्सवाद एवं अस्तित्ववाद का भारतीय साहित्य पर</li> </ul>

		<p>प्रभाव की समीक्षा करेंगे।</p> <ul style="list-style-type: none"> <li>संस्कार उपन्यास की तात्विक समीक्षा, कथ्य, शिल्प, महत्व एवं प्रासंगिकता का विश्लेषण करेंगे। गद्दांशों की सप्रसंग व्याख्या करेंगे।</li> <li>घासीराम कोतवाल नाटक का शिल्प विधान, कथ्य, संवाद कौशल, कथासार का वर्णन करेंगे। गद्दांशों की सप्रसंग व्याख्या करेंगे।</li> <li>गीतांजलि के गीतों की सप्रसंग व्याख्या व गीतों के सार लिखेंगे।</li> </ul>
<b>SANSKRIT</b>		
विषय का नाम	कोर्स कोड	लर्निंग आउटकम
संस्कृत काव्य	SKT-DSC101-	<ul style="list-style-type: none"> <li>रघुवंशम महाकाव्य में गाय की सेवा से मनचाहा फल मिलता है। पूजनीय व्यक्ति की उपेक्षा नहीं की जानी चाहिए। योग्य गुरु के निर्देश में ही कार्य करना चाहिए। रघुकुल के राजाओं की आदर्श जीवनशैली का हमें अनुसरण करना चाहिए।</li> <li>शिशुपालवधम महाकाव्य में राजनीति के संधिविग्रहआदि नियमों को जानने को किताबी ज्ञान तथा मौके के अनुसार कार्य करने को राजनीति की वास्तविक समझ कहते हैं। नीतिशतक के अनुसार छात्र इस नीतिमय ज्ञान को हृदयंगम कर ले तो नीति में उसे देवराज इन्द्र भी नहीं हरा सकता। परिष्कृत वाणी ही मनुष्य को सजाती है। सत्संग से बुद्धि निर्मल होती है।</li> </ul>
संस्कृत गद्य काव्य	SKT-DSC102-	<ul style="list-style-type: none"> <li>शुकनासोपदेश में महामंत्री राजकुमार को उपदेश देते हैं कि युवावस्था के दोषों तथा लक्ष्मी प्राप्त होने से मनुष्य के मन विकार उत्पन्न हो जाते हैं। यौवन कई बुराईयों की जड़ है। यौवन के जोश से उत्पन्न अन्धकार बड़ा गहन होता है। इसे सूर्य का प्रकाश दीपकों, मणियों की चमक, अप्रतिम, स्थायी प्रभा भी दूर नहीं कर सकते। युवाव अथाह प्रभुत्व और शक्ति ये चार ऐसे तत्व हैं, सौन्दर्य एक भी मन-जिनमें से एक मनुष्य को अनर्थ के गर्त में धकेलने में समर्थ होता है। जहां व्यक्ति को ये चारों एक साथ प्राप्त हों वहाँ तो फिर कहना ही क्या ?</li> </ul>
नीति साहित्य	SKT-DSC-103	<ul style="list-style-type: none"> <li>नीति साहित्य पढ़ाए जाने का उद्देश्य छात्रों को नीति निपुण बनाना है। इसलिए कहा जाता है कि जो इस ग्रंथ को हृदयंगम कर लेता है नीति में उसे देवराज इन्द्र भी नहीं हरा सकता। हमें प्रत्येक काम को अच्छी प्रकार सोच का विचार करने के पश्चात ही करना चाहिए। प्रभु होने</li> </ul>



		<p>यदि अपने प्रभुत्व से दूसरे लोगों को संरक्षण ? क्या लाभ यद ? प्रदान न करा सके । धनी होने का क्या लाभि वह उस धन से दूसरों की सहायता न कर सके । अपनेपराये - वो तो , के जो विचार आप लोगों के मन में आ रहे हैं संकीर्ण बुद्धि वालों के विचार हैं । कहा जाता है कि केवल अपितु समझदार बनने का , साक्षर होना ही विद्या नहीं है नाम वास्तविक विद्वत्ता है । हमें चाहिए की हम हर काम को पुस्तकों के शाब्दिक अर्थ के आधार पर ही नहीं अपितु उनके भावार्थ समझकर अपनी समझ के अनुसार भी करें अन्यथा उन मूर्ख पंडितों की भांति उपहास को प्राप्त होंगे । शास्त्र ज्ञान के साथ लोकव्यवहार की जानकारी भी परमावश्यक है । मनुष्य को मुसीबत में घबराना नहीं चाहिए अपितु बुद्धिमता से कठिनाई से पार पाने का उपाय सोचना चाहिए । मनुष्य वही है जो शिक्षित तपस्वी एवं दानी है । जिसमें ये , धार्मिक, गुणी, सुशील, गुण नहीं हैं वो तो पृथ्वी पर भार स्वरूप हैं। मनुष्य की शोभा किसी भी आभूषण से उतनी नहीं हो सकती है जितनी वाणी से हो सकती है।</p>
<p>उपनिषद्गीता तथा , पाणिनीय शिक्षा</p>	<p>SKT-AECC-104</p>	<ul style="list-style-type: none"> <li>• इसमें उपदेश दिया गया है कि ईश्वर संसार के कण कण - में विद्यमान है । हमें अन्य के धन का लालच नहीं करना चाहिए । आलस्य का त्याग करके निरंतर कर्म करते रहना चाहिए । यदि ये कर्म निष्काम भाव से किए जाएँ तो ये बंधन का कारण नहीं बनते हैं । सब प्राणियों में ईश्वर भाव रखने वाला व्यक्ति कभी भी शोक एवं मोह को प्राप्त नहीं होता है । मनुष्य को सौ वर्षों तक जीने की कामना करनी चाहिए । इसमें निष्काम कर्म योगी बनने की प्रेरणा दी गयी है । व्यक्ति को समस्त कामनाओं का परित्याग करके स्पृहारहितममतारहित एवं अहंकार विहीन होकर , में विचरण करना चाहिए । कर्मशील व्यक्ति जीवन संसार के मधुर फलों को प्राप्त करता है ।</li> </ul>
<p>संस्कृत नाटक</p>	<p>SKT-DSC-201</p>	<ul style="list-style-type: none"> <li>• समय बीतने पर सीखी हुई विद्याएँ भी नष्ट हो जाती हैं । यज्ञ और दान का फल अक्षय होता है । अन्य सभी क्रियाकलापों के फल क्षयशील हैं । सांसारिक विजय की अपेक्षा दानवीरता को प्राथमिकता दी गई है। मांगलिक अवसर पर रोना उचित नहीं होता।</li> <li>• सुंदर रूप वल्कल वस्त्रों में भी सुंदर लगता है । शकुंतला</li> </ul>

		<p>जैसी तपस्वी कन्या का प्रेम तपोवन में रहने वाले पशु - पक्षियों और वनस्पतियों के प्रति इतना अधिक है कि उसके तपोवन से विदाई के समय जैसी उसकी व्याकुलता पक्षी और - पशु ,है उससे अधिक तपोवन के तपस्वी वनस्पति दुःखी हो रहे हैं । प्रकृति प्रेम अनूठा है । आशा का बंधन विरह के भारी दुःख को भी सहन करवा देता है । पुत्री को उपदेश दिया गया है कि पति के घर जाकर उनके हरेक कार्य में सहयोग करना। विपरीत आचरण मत करना । विपरीत आचरण करने वाली दोनों कुलों की मुसीबत बन जाती है ।</p>
संस्कृत व्याकरण	SKT-DSC-202	<ul style="list-style-type: none"> <li>• व्याकरण में प्रत्यय के माध्यम से शब्द निर्माण के बारे में सिखते हैं । इससे उनके शब्दकोश में वृद्धि होती है। वर्णों के उच्चारण स्थान के विषय में गहनता से ज्ञान प्राप्त होता है । अव्यय शब्दों के अध्ययन से छात्रों को ज्ञात होता है कि इनका व्यावहारिक रूप से प्रयोग तीनों लिंगों , तीनों वचनों और तीनों कालों में बिना किसी परिवर्तन के में कोई परिवर्तन नहीं होता है ।</li> </ul>
संस्कृत व्याकरण	SKT-DSC-203	<ul style="list-style-type: none"> <li>• व्याकरण में प्रत्यय के माध्यम से शब्द निर्माण के बारे में सिखते हैं । इससे उनके शब्दकोश में वृद्धि होती है। वर्णों के उच्चारण स्थान के विषय में गहनता से ज्ञान प्राप्त होता है । अव्यय शब्दों के अध्ययन से छात्रों को ज्ञात होता है कि इनका व्यावहारिक रूप से प्रयोग तीनों लिंगों , तीनों वचनों और तीनों कालों में बिना किसी परिवर्तन के होता है । इनके रूप में कोई परिवर्तन नहीं होता है ।</li> </ul>
आयुर्वेद के मूल सिद्धांत	SKT-AEEC/SEC-205	<ul style="list-style-type: none"> <li>• आयुर्वेद में हमारे लिए स्वस्थ जीवन यापन करने के लिए मार्गदर्शन किया है । प्रत्येक ऋतु के अनुसार मनुष्य के लिए अलग अलग तरह के भोजन करने का निर्देश है । - पीने का - विहार एवं खाने- प्रत्येक ऋतु के अनुसार आहार पित- उचित पालन करने से वात-तकफ की प्रकृति ठीक , रहती है ।</li> <li>• तैत्तिरियोपनिषद में अन्नमन एवं वाणी ,श्रोत्र ,चक्षु ,प्राण , ये ब्रह्म प्राप्ति के द्वार हैं ।</li> </ul>
व्यक्तित्व विकास का भारतीय दृष्टिकोण	SKT-DSE-301	<ul style="list-style-type: none"> <li>• उपनिषदों का ज्ञान तत्त्वविदों के लिए अमूर्तोपम होता है । जिसने इसका जितना ही अवगाहन किया है उतना ही</li> </ul>

		<p>आनंद मिला है । आत्मज्ञान की प्राप्ति के लिए जिसने शरीर के अहंकार को सर्वथा त्याग दिया है वे ही अपने स्वरूप में प्रतिष्ठत होते हैं । आत्मा ही अमृत ब्रह्म और , सर्वरूप है । वह आत्मतत्त्व ही अपनी मायाशक्ति से अनेकों आकार धारण करके क्रीडा कर रहा है । ब्रह्म की ही उपासना को सर्वोपरि बताया गया है । मनुष्य को शास्त्रविहित कर्म करने चाहिए । परमात्मा की भक्ति करने वाला परमात्मा को ही प्राप्त होता है ।</p>
साहित्यिक समालोचना	SKT-DSE-302	<ul style="list-style-type: none"> <li>काव्य की रचना से मनुष्य को यश ,व्यवहार ज्ञान ,धन , अमंगल का विनाशउपदेश की ,परमानन्द की प्राप्ति , प्राप्ति होती है । ब्रह्मा की रचना प्रकृति परतंत्र है और जबकि कवि की रचना स्वतंत्र है और ,नियमों में बंधी है से रहित है । नियमों के बंधन</li> </ul>
पातंजल योगसूत्र	SKT- GE-303	<ul style="list-style-type: none"> <li>शारीरिकआध्यात्मिक रूप से स्वस्थ रहने के ,मानसिक , लिए हमें योग के आठ नियमों का पालन करना चाहिए ।</li> </ul>
भाषा विज्ञान के मूलभूत सिद्धांत	SKT-GE-304	<ul style="list-style-type: none"> <li>भाषा विज्ञान के अनुसार भाषा में परिवर्तन के नियम और भाषा उत्पत्ति के विभिन्न स्रोतों के बारे में ज्ञात होता है । वाक् और भाषा में अंतर और भाषा में आवश्यक तत्वों के बारे में जानकारी मिलती है ।</li> </ul>
<b>Music</b>		
Basic principles of Indian Music & Biographies of musicians	<b>MUSA101TH</b>	<ul style="list-style-type: none"> <li>Students learned about the basics of Music and about great musicians.</li> </ul>
Practical - Stage Performance	<b>MUSA102PR</b>	<ul style="list-style-type: none"> <li>Students got the experience to perform live on stage</li> </ul>
Theory of Indian Music & Biographies of Musicians	<b>MUSA103TH</b>	<ul style="list-style-type: none"> <li>Students learned about the theory part of music in great details</li> </ul>
Practical - Viva Voce	<b>MUSA104PR</b>	<ul style="list-style-type: none"> <li>Students got to learn the speaking skills and expressions while giving their exam practically</li> </ul>
Theory of Indian Music, ancient granthas & Contribution of musicologists	<b>MUSA201TH</b>	<ul style="list-style-type: none"> <li>Students expanded the horizon of their knowledge by reading about treatises and great books by scholars</li> </ul>
Practical - Stage Performance	<b>MUSA202PR</b>	<ul style="list-style-type: none"> <li>Students got the experience to perform live on stage</li> </ul>
Theory of Indian Music, medieval granthas & Contribution of	<b>MUSA203TH</b>	<ul style="list-style-type: none"> <li>Students came to the next level of learning by having a knowledge about treatises and great books by scholars</li> </ul>

musicologists		
Practical - viva Voce	<b>MUSA204PR</b>	<ul style="list-style-type: none"> <li>• Students got to learn the speaking skills and expressions in an advance way</li> </ul>
Course I, Presentation & Documentation - 1	<b>MUSA205PR</b>	<ul style="list-style-type: none"> <li>• Students learned about various aspects of folk music</li> </ul>
Course II, Presentation & Documentation - 2	<b>MUSA206PR</b>	<ul style="list-style-type: none"> <li>• Students learned about how to operate Sound /PA system</li> </ul>
Course III, Presentation & Documentation – 3	<b>MUSA301PR</b>	<ul style="list-style-type: none"> <li>• Students learned about how to present power point presentations of music subject</li> </ul>
Course IV, Presentation & Documentation - 4	<b>MUSA 302PR</b>	<ul style="list-style-type: none"> <li>• Students learned about how to compose songs</li> </ul>
Theory of Indian Music & study of ancient granthas and ragas	<b>MUSA 303TH</b>	<ul style="list-style-type: none"> <li>• Students learned about some of the ancient books and treatises.</li> </ul>
Practical - (DSE-1A) Elective	<b>MUSA 304 PR</b>	<ul style="list-style-type: none"> <li>• Students learned about Practical part of Indian ragas.</li> </ul>
Theory of Indian Music & Gharana Tradition - (DSE -1B) Elective , Unit 1	<b>MUSA 305TH</b>	<ul style="list-style-type: none"> <li>• Students learned about the Gharana tradition of Indian music</li> </ul>
Practical - (DSE-1B) Elective , Unit -2	<b>MUSA 306 PR</b>	<ul style="list-style-type: none"> <li>• Students learned about the art of listening the Indian classical music</li> </ul>
Theory of Indian music & Folk music of Himachal Pradesh	<b>MUSA 307 TH</b>	<ul style="list-style-type: none"> <li>• Students learned about the Folk music of Himachal Pradesh</li> </ul>
Practical -Generic (Elective) GE 2	<b>MUSA 308PR</b>	<ul style="list-style-type: none"> <li>• Students learned about the basics of Music.</li> </ul>

## BOTANY

### SCIENCE

#### Computer Application

Problem Solving Using Computer	COMP101T H	<ul style="list-style-type: none"> <li>• To get familiar with the basics of computer.</li> <li>• To use computer for solving problem</li> <li>• To learn programming in Python</li> </ul>
Office Automation Tools	COMP102T H	<ul style="list-style-type: none"> <li>• To get familiar with Office Suite.</li> <li>• To make presentations.</li> <li>• To prepare documents.</li> <li>• To analyze and present data using spreadsheets.</li> </ul>
Computer System Architecture	COMP201T H	<ul style="list-style-type: none"> <li>• To understand the basic logic gates and their uses</li> <li>• To explain the working of sequential and combinational circuits</li> <li>• To perform arithmetic operations on different number systems</li> <li>• To understand the design and organization of a basic computer</li> <li>• To program a basic computer and understand the working of CPU</li> </ul>
Database Management System	COMP202T H	<ul style="list-style-type: none"> <li>• To understand the architecture of a DBMS</li> <li>• To understand entities, relationship and ER modelling</li> <li>• To understand relational data model and other models</li> <li>• To design and normalize a database</li> </ul>
PHP Programming	COMP203T H	<ul style="list-style-type: none"> <li>• To learn about different tools and software for programming in PHP</li> <li>• To make use of operators</li> <li>• To make html forms with PHP</li> <li>• To make use of function and array</li> <li>• To handle strings and regular expressions</li> </ul>
Operating System	COMP301T H	<ul style="list-style-type: none"> <li>• Operating system</li> <li>• To understand different types of operating system</li> <li>• To know about different functions of operating systems</li> <li>• To understand how processes are managed</li> <li>• To know about memory management and scheduling</li> <li>• To use shell scripting</li> </ul>
Data Structure and File Processing	COMP302T H	<ul style="list-style-type: none"> <li>• Data Structure and File Processing</li> <li>• To use different data structures</li> <li>• To understand memory management and searching in files</li> <li>• To perform basic file system operations</li> <li>• To understand how files are organized</li> </ul>
Software Engineering	COMP303T H	<ul style="list-style-type: none"> <li>• Software Engineering</li> <li>• To understand different software development models</li> <li>• To know software requirements and prepare documents</li> <li>• To understand software design principles and its concepts</li> <li>• To understand SCM and SPM</li> <li>• To understand different types of testing</li> <li>• To know trends in software engineering</li> </ul>

Biodiversity	BOTA 101	<ul style="list-style-type: none"> <li>• This course enables the students getting well versed with the biological diversity including Microbes (bacteria and viruses), Fungi and various diseases associated with them.</li> <li>• Evolutionary hierarchy of various plant groups viz., Algae, Mosses, Ferns, Cone bearing plants and fruit bearing plants is also taught and helps the students having a comprehensive idea about various plant groups and which also paves the way for in depth understanding of the surrounding flora.</li> <li>• Future prospects of this course are very high as implementing Biological Diversity Act, 2002 is now a legal binding for the states all over India, and without having the basic knowledge of Biodiversity, it is very difficult to implement it.</li> </ul>
Taxonomy and Ecology	BOTA 102	<ul style="list-style-type: none"> <li>• <b>Taxonomy</b> course linked with the Biodiversity and deals with the methods of systematic identification and classification of the plants.</li> <li>• This course has very good career prospects as there is a huge dearth of taxonomists right now at least in Himalayan states.</li> <li>• <b>Ecology</b> course enables the students to have a thorough idea about the ecosystem and various ecological factors responsible for the plant communities to thrive at a particular place.</li> <li>• This course enables the students to quantitatively assess the flora and is the fundamental course of the entire Climate related research.</li> </ul>
Plant Physiology and Metabolism	BOTA 202	<ul style="list-style-type: none"> <li>• This basic course enables the students to have a thorough idea of all the metabolic processes occurring in a plant. There is a bright research prospective in this field.</li> </ul>
Plant Anatomy and Embryology	BOTA 201	<ul style="list-style-type: none"> <li>• <b>Anatomy</b> deals with the internal structural organization of a plant while.</li> <li>• <b>Embryology</b> deals with all the events that occur after the fertilization of an ovule to produce a fully developed plant embryo.</li> </ul>
Economic Botany and Biotechnology	BOTA 301	<ul style="list-style-type: none"> <li>• <b>Economic Botany</b> enlightens the students about the relationship between people (individuals and cultures) and plants. This link between botany and anthropology and explores the ways humans use plants for food and medicines etc.</li> <li>• <b>Biotechnology</b> course covers exploitation of biological processes for industrial and other purposes, especially by genetic manipulation of microorganisms for the production of transgenic plants, antibiotics, hormones, etc. The course contains various basic techniques used in Biotechnology.</li> </ul>
Cell and Molecular Biology	BOTA 303	<ul style="list-style-type: none"> <li>• Studies of the structure and function of the cell.</li> <li>• It provides students with a solid foundation in cell</li> </ul>

		biology viz., cell organelles and molecular biology processes of replication, transcription, translation and genetic codes etc.
Ethno botany and Medicinal Plants	BOTA	<ul style="list-style-type: none"> <li>• It involves the indigenous knowledge of plant classification, cultivation, and use as food, medicine and shelter.</li> <li>• Particularly significant for the rural students who are living in close vicinity with nature.</li> </ul>
Mushroom Cultivation and Technology	BOTA 307	<ul style="list-style-type: none"> <li>• This SEC course gives an insight into the Edible and Medicinal Mushrooms, their cultivation technologies and commercial prospects.</li> </ul>

## MATHAMATICS

Differential Calculus	MATH101TH	<ul style="list-style-type: none"> <li>• Explain the relationship between the derivative of a function as a function and the notion of the derivative as the slope of the tangent line to a function at a point.</li> <li>• Compare and contrast the ideas of continuity and differentiability.</li> <li>• calculate limits in indeterminate forms by a repeated use of L' Hospital rule.</li> <li>• find maxima and minima, critical points and inflection points of functions and to determine the concavity and convexity of curves.</li> <li>• find double points of curves.</li> </ul>
Differential Equations	MATH102TH	<ul style="list-style-type: none"> <li>• recognise differential equations that can be solved by each of the three methods – direct integration, separation of variables and integrating factor method – and use the appropriate method to solve them</li> <li>• use an initial condition to find a particular solution of a differential equation, given a general solution</li> <li>• check a solution of a differential equation in explicit or implicit form, by substituting it into the differential equation</li> <li>• solve differential equations with constant coefficients, Cauchy's equation and Legendre's equation</li> </ul>
Real Analysis	MATH201TH	<ul style="list-style-type: none"> <li>• Determine if an infinite sequence is bounded &amp; monotonic</li> <li>• Determine if an infinite sequence is convergent or divergent</li> <li>• Find the sequence of partial sums of an infinite series</li> <li>• Determine if a geometric series is convergent or divergent</li> <li>• Find the sum of a convergent geometric series</li> <li>• Determine if an infinite series is convergent or divergent by selecting the appropriate test from the following: (a) test for divergence; (b) p-series test; (c) the comparison tests; (d) alternating series test; (e) absolute convergence test; (f) ratio test; and (g) root test</li> <li>• understand power series and find out the radius of convergence</li> </ul>

<b>Algebra</b>	<b>MATH202T H</b>	<ul style="list-style-type: none"> <li>• understand group, subgroup and basic properties of groups, rings, and fields</li> <li>• verify that a given subset of a group is a subgroup, normal subgroup and quotient group</li> <li>• verify that a given function is a homomorphism (isomorphism)</li> <li>• state and prove Cayley's theorem and Lagrange's theorem</li> <li>• find the order of a given group element</li> <li>• state and prove that subgroups of cyclic groups are cyclic</li> <li>• find all the cosets of a subgroup in a group</li> <li>• verify that a given subset of a ring is a subring (ideal)</li> <li>• state and prove the fundamental homomorphism theorems for groups and rings</li> <li>• state and prove the isomorphism theorems for groups and rings</li> <li>• find the characteristic of an integral domain</li> <li>• construct the field of quotients of an integral domain</li> </ul>
<b>Integral Calculus</b>	<b>MATH309T H</b>	<ul style="list-style-type: none"> <li>• Evaluate indefinite and definite integrals, involving logarithmic and exponential functions</li> <li>• Solve problems involving Mean – Value Theorem and the Fundamental Theorem of Calculus.</li> <li>• Evaluate integrals by different methods of integration.</li> <li>• Differentiate between different types of indeterminate forms and finding limit of functions.</li> <li>• Calculate areas of plane regions and arc length.</li> <li>• Calculate volumes by both washers and cylindrical shells methods.</li> <li>• Calculate areas of plane regions and arc length using polar coordinates.</li> </ul>
<b>Vector Calculus</b>	<b>MATH310T H</b>	<ul style="list-style-type: none"> <li>• Scalar and vector product of three and four vectors</li> <li>• Coplanar vectors, collinear vectors and reciprocal vectors</li> <li>• Memorize definition of directional derivative and gradient</li> <li>• Vector calculus motivates the study of vector differentiation and integration in two and three dimensional spaces</li> <li>• Explain the concept of a vector integration a plane and in space.</li> </ul>
<b>Matrices</b>	<b>MATH301T H</b>	<ul style="list-style-type: none"> <li>• Find the rank of a matrix</li> <li>• Solve the matrix equation <math>AX = B</math> using row operations and matrix operations.</li> <li>• Find the determinant of a product of square matrices, of the transpose of a square matrix, and of the inverse of an invertible matrix</li> <li>• Find the characteristic equation, eigen values and corresponding eigenvectors of a given matrix</li> <li>• Determine if a given matrix is diagonalizable</li> <li>• Use geometric properties and strategies to model, solve</li> </ul>



		problems, and view solutions, especially in R2 and R3 , as well as conceptually extend these results to higher dimensions
<b>Numerical Methods</b>	<b>MATH304TH</b>	<ul style="list-style-type: none"> <li>• Solve an algebraic or transcendental equation using an appropriate numerical method</li> <li>• Approximate a function using an appropriate numerical method.</li> <li>• Solve a differential equation using an approximate numerical method</li> <li>• Evaluate a derivative at a value using an appropriate numerical method</li> <li>• Solve a linear system of equations using an appropriate numerical</li> <li>• Perform an error analysis for a given numerical method</li> <li>• Prove results for numerical root finding methods</li> <li>• Calculate a definite integral using an appropriate numerical method</li> </ul>
<b>Probability &amp; Statistics</b>	<b>MATH321TH</b>	<ul style="list-style-type: none"> <li>• Understand the concepts of probability and statistics and their uses in the real world.</li> <li>• experiment with probability devices (coins, spinners, dice, and games of chance). They will become familiar with concepts like chance, certainty, and likelihood.</li> <li>• distinguish certain from uncertain events</li> <li>• describe events as being more or less likely from experience</li> <li>• order events from least likely to most likely and justify their choice</li> <li>• represent and interpret probabilities as fractions, decimals and percentages</li> <li>• determine the probability of an event using the results of an experiment</li> </ul>
<b>Transportation and Game Theory</b>	<b>MATH 317TH</b>	<ul style="list-style-type: none"> <li>• Know about Transportation Problem (TP) - Mathematical Model, IBFS using Northwest Corner Rule, Row and Column Minimum Methods, Matrix Minimum (Low Cost Entry) Method and Vogel's Approximation Method, Unbalanced TP, Degeneracy, Optimality Test and Managerial Applications. Assignment Problem (AP): Mathematical Model, Unbalanced AP, Restricted AP, Method of Obtaining Solution- Hungarian Method.</li> <li>• distinguish a game situation from a pure individual's decision problem</li> <li>• explain concepts of players, strategies, payoffs, rationality, equilibrium</li> <li>• pure and mixed strategies, and best responses</li> <li>• find dominant strategy equilibrium.</li> </ul>

Differential Calculus	MATH101TH	<ul style="list-style-type: none"> <li>• Explain the relationship between the derivative of a function as a function and the notion of the derivative as the slope of the tangent line to a</li> </ul>
-----------------------	-----------	--

		<p>function at a point.</p> <ul style="list-style-type: none"> <li>• Compare and contrast the ideas of continuity and differentiability.</li> <li>• calculate limits in indeterminate forms by a repeated use of L' Hospital rule.</li> <li>• find maxima and minima, critical points and inflection points of functions and to determine the concavity and convexity of curves.</li> <li>• find double points of curves.</li> </ul>
Differential Equations	MATH102TH	<ul style="list-style-type: none"> <li>• recognise differential equations that can be solved by each of the three methods – direct integration, separation of variables and integrating factor method – and use the appropriate method to solve them</li> <li>• use an initial condition to find a particular solution of a differential equation, given a general solution</li> <li>• check a solution of a differential equation in explicit or implicit form, by substituting it into the differential equation</li> <li>• solve differential equations with constant coefficients, Cauchy's equation and Legendre's equation</li> </ul>
Real Analysis	MATH201TH	<ul style="list-style-type: none"> <li>• Determine if an infinite sequence is bounded &amp; monotonic</li> <li>• Determine if an infinite sequence is convergent or divergent</li> <li>• Find the sequence of partial sums of an infinite series</li> <li>• Determine if a geometric series is convergent or divergent</li> <li>• Find the sum of a convergent geometric series</li> <li>• Determine if an infinite series is convergent or divergent by selecting the appropriate test from the following: (a) test for divergence; (b) p-series test; (c) the comparison tests; (d) alternating series test; (e) absolute convergence test; (f) ratio test; and (g) root test</li> <li>• understand power series and find out the radius of convergence</li> </ul>
Algebra	MATH202TH	<ul style="list-style-type: none"> <li>• understand group, subgroup and basic properties of groups, rings, and fields</li> <li>• verify that a given subset of a group is a subgroup, normal subgroup and quotient group</li> <li>• verify that a given function is a homomorphism (isomorphism)</li> <li>• state and prove Cayley's theorem and Lagrange's theorem</li> </ul>

		<ul style="list-style-type: none"> <li>• find the order of a given group element</li> <li>• state and prove that subgroups of cyclic groups are cyclic</li> <li>• find all the cosets of a subgroup in a group</li> <li>• verify that a given subset of a ring is a subring (ideal)</li> <li>• state and prove the fundamental homomorphism theorems for groups and rings</li> <li>• state and prove the isomorphism theorems for groups and rings</li> <li>• find the characteristic of an integral domain</li> <li>• construct the field of quotients of an integral domain</li> </ul>
<b>Integral Calculus</b>	MATH309TH	<ul style="list-style-type: none"> <li>• Evaluate indefinite and definite integrals, involving logarithmic and exponential functions</li> <li>• Solve problems involving Mean – Value Theorem and the Fundamental Theorem of Calculus.</li> <li>• Evaluate integrals by different methods of integration.</li> <li>• Differentiate between different types of indeterminate forms and finding limit of functions.</li> <li>• Calculate areas of plane regions and arc length.</li> <li>• Calculate volumes by both washers and cylindrical shells methods.</li> <li>• Calculate areas of plane regions and arc length using polar coordinates.</li> </ul>
<b>Vector Calculus</b>	MATH310TH	<ul style="list-style-type: none"> <li>• Scalar and vector product of three and four vectors</li> <li>• Coplanar vectors, collinear vectors and reciprocal vectors</li> <li>• Memorize definition of directional derivative and gradient</li> <li>• Vector calculus motivates the study of vector differentiation and integration in two and three dimensional spaces</li> <li>• Explain the concept of a vector integration a plane and in space.</li> </ul>
<b>Matrices</b>	MATH301TH	<ul style="list-style-type: none"> <li>• Find the rank of a matrix</li> <li>• Solve the matrix equation <math>AX = B</math> using row operations and matrix operations.</li> <li>• Find the determinant of a product of square matrices, of the transpose of a square matrix, and of the inverse of an invertible matrix</li> <li>• Find the characteristic equation, eigen values and corresponding eigenvectors of a given matrix</li> <li>• Determine if a given matrix is diagonalizable</li> <li>• Use geometric properties and strategies to model,</li> </ul>

		<p>solve problems, and view solutions, especially in <math>R^2</math> and <math>R^3</math>, as well as conceptually extend these results to higher dimensions</p>
<b>Numerical Methods</b>	MATH304TH	<ul style="list-style-type: none"> <li>• Solve an algebraic or transcendental equation using an appropriate numerical method</li> <li>• Approximate a function using an appropriate numerical method.</li> <li>• Solve a differential equation using an approximate numerical method</li> <li>• Evaluate a derivative at a value using an appropriate numerical method</li> <li>• Solve a linear system of equations using an appropriate numerical</li> <li>• Perform an error analysis for a given numerical method</li> <li>• Prove results for numerical root finding methods</li> <li>• Calculate a definite integral using an appropriate numerical method</li> </ul>
<b>Probability &amp; Statistics</b>	MATH321TH	<ul style="list-style-type: none"> <li>• Understand the concepts of probability and statistics and their uses in the real world.</li> <li>• experiment with probability devices (coins, spinners, dice, and games of chance). They will become familiar with concepts like chance, certainty, and likelihood.</li> <li>• distinguish certain from uncertain events</li> <li>• describe events as being more or less likely from experience</li> <li>• order events from least likely to most likely and justify their choice</li> <li>• represent and interpret probabilities as fractions, decimals and percentages</li> <li>• determine the probability of an event using the results of an experiment</li> </ul>
<b>Transportation and Game Theory</b>	MATH 317TH	<ul style="list-style-type: none"> <li>• Know about Transportation Problem (TP) - Mathematical Model, IBFS using Northwest Corner Rule, Row and Column Minimum Methods, Matrix Minimum (Low Cost Entry) Method and Vogel's Approximation Method, Unbalanced TP, Degeneracy, Optimality Test and Managerial Applications. Assignment Problem (AP): Mathematical Model, Unbalanced AP, Restricted AP, Method of Obtaining Solution- Hungarian Method.</li> <li>• distinguish a game situation from a pure individual's decision problem</li> <li>• explain concepts of players, strategies, payoffs, rationality, equilibrium</li> <li>• pure and mixed strategies, and best responses</li> <li>• find dominant strategy equilibrium.</li> </ul>

## COMMERCE

Course Title	Course Code	Learning Outcomes
Financial Accounting	BC 1.1	<ul style="list-style-type: none"><li>• To provide basic knowledge about various concepts and conventions of accounting</li><li>• To provide thorough understanding of accounting cycle</li><li>• To understand the Financial statements with adjustments</li><li>• To understanding the basics of Hire Purchase Accounting, Consignment Accounting and Branch Accounting</li><li>• To get the basic knowledge about computerised accounting system through tally</li></ul>
Business Organisation And Management	BC 1.2	<ul style="list-style-type: none"><li>• To give clear view of various forms of business organisations</li><li>• To provide detailed knowledge of Managements process and understand management process step by step</li><li>• To understand the various theories of Motivation and Leadership</li><li>• To get the basic idea of various functional areas of management like Product Life Cycle, SEBI and HRM</li></ul>
Business Law	BC 1.3	<ul style="list-style-type: none"><li>• To understand the Indian Contract Act 1872 and various rules and provisions of the act</li><li>• To get the understanding of Bailment , Indemnity and Agency Acts</li><li>• To understand the various rules and regulations of sale of goods act 1930</li><li>• To understand the Negotiable Instruments Act 1881 and get the basic knowledge of various financial</li></ul>

		<p>instruments</p> <ul style="list-style-type: none"> <li>• To be familiar with the Partnership Laws</li> </ul>
Statistics And Business Mathematics	BC 1.4	<ul style="list-style-type: none"> <li>• To study the Uni variate Analysis and understand the concepts of Mean, Median ,Mode and its calculations</li> <li>• To be familiar with the concepts of Standard Deviations and Measures of Variations</li> <li>• To understand the Bi Variate Analysis</li> <li>• To be familiar with the index numbers and time series analysis</li> <li>• To understand the various concepts of Matrices and Determinants and be familiar with simple interest and compound interest</li> </ul>
Company Law	BC 2.1	<ul style="list-style-type: none"> <li>• To make students conversant about various company laws of the country</li> <li>• To get the knowledge about the process of company formation and documentation part</li> <li>• To understand the various laws regarding the routine functions of a company</li> <li>• To be familiar with the winding up procedure of the company and various other contemporary issues</li> </ul>
Income Tax	BC 2.2	<ul style="list-style-type: none"> <li>• To be aware about various basics concepts of Income Tax Act like Assessment Year and Previous Year</li> <li>• To be able to determine the residential status of assessee</li> <li>• To be aware about the latest developments in Income tax acts</li> <li>• Understanding the income tax calculations procedure under different heads of income</li> <li>• Understanding the Income Tax Return Filing procedure</li> </ul>

Computer Applications in the Business	BC 2.3	<ul style="list-style-type: none"> <li>• To get the practical knowledge about the use of computer in the business organisations</li> <li>• Understanding the word processing with practical</li> <li>• Understanding the MS Office , MS Excel and MS PowerPoint with practical</li> <li>• Learn to create business spreadsheets</li> </ul>
Corporate Accounting	BC 2.4	<ul style="list-style-type: none"> <li>• To be familiar with the Corporate accounting procedure</li> <li>• Learning the accounting procedure of Share Capital and Debentures</li> <li>• Understanding the accounting process of Amalgamation and holding companies</li> <li>• To get the knowledge of Financial statements analysis</li> <li>• Learn to prepare and analysis of Cash Flow Statements of the companies</li> </ul>
Cost Accounting	BC 2.5	<ul style="list-style-type: none"> <li>• Understanding the various cost concepts and its relation with the business</li> <li>• Learning the cost determination process at various levels of business</li> <li>• To be familiar with the Material Cost, Labour Cost and Overheads cost</li> <li>• To be aware about the costing procedure of a contract and process costing</li> <li>• To Understand various contemporary issues of cost accounting</li> </ul>
E Commerce	BC 2.6	<ul style="list-style-type: none"> <li>• To be familiar with the concept of E Commerce and various technological requirements for this</li> <li>• Getting knowledge about encryption and IT acts.</li> <li>• Studying the E Payment system and being familiar with the online business transactions</li> </ul>

		<ul style="list-style-type: none"> <li>• Studying the latest developments in the E Commerce space</li> </ul>
Fundamentals of Financial Management	BC 3.1(c)	<ul style="list-style-type: none"> <li>• Understanding the concepts and Importance of Financial managements</li> <li>• To get the knowledge of Investments Decisions through various methods like NPV, IRR and ARR</li> <li>• To be familiar with the dividend decisions</li> <li>• Diving into the concepts of Working capitals and its calculations methods</li> </ul>
Corporate Governance and Auditing	BC 3.2(a0	<ul style="list-style-type: none"> <li>• To understand the evolution and various concepts of corporate governance</li> <li>• To study the practices of corporate governance and various scandals</li> <li>• To get the knowledge of Auditing and its importance</li> <li>• To study the various functional areas of Auditing and procedure of Auditing</li> </ul>
Entrepreneurship	BC 3.3	<ul style="list-style-type: none"> <li>• Understanding the concept of Entrepreneurship and its role in business</li> <li>• Studying the Micro, Small and Medium Enterprises</li> <li>• To be aware about the sources of business ideas and its feasibility</li> <li>• To Studying the resource mobilising process</li> </ul>
Economy of Himachal Pradesh	ECONA313	<ul style="list-style-type: none"> <li>• Understanding the basic features of Economy of Himachal Pradesh</li> <li>• Studying the roots of agriculture and Horticulture</li> <li>• To be aware about the Industrial and power sectors of Himachal Pradesh</li> <li>• To studying the Tourism and Infrastructure of Himachal Pradesh</li> </ul>
Management Accounting	BC 3.5(c)	<ul style="list-style-type: none"> <li>• To be familiar with the contemporary issues and financial statements analysis</li> <li>• To study the marginal costing and be familiar with the cost volume profit ,</li> </ul>



		<p>BEP and margin of safety</p> <ul style="list-style-type: none"> <li>• Getting the knowledge about various business decision making techniques</li> <li>• Understanding to prepare cash budget and flexible budget</li> <li>• Making comparative analysis with standard costing</li> </ul>
International Business	BC 3.6(a)	<ul style="list-style-type: none"> <li>• Understanding International business environment</li> <li>• To be familiar with the various international Trade Theories</li> <li>• Understanding international financial environment</li> <li>• Getting knowledge about business operations and various issues of international business</li> <li>• To studying the foreign trade promotion measures and financing avenues and payment terms.</li> </ul>
Personal Selling and Salesmanship	BC 3.7	<ul style="list-style-type: none"> <li>• Understanding the concept and importance of personal selling</li> <li>• Studying Buying motive , motivational theories</li> <li>• Understanding selling process</li> <li>• To be conversant about various sales reports</li> </ul>
Indian Economy	ECONA314	<ul style="list-style-type: none"> <li>• To be familiar with the evolution of Indian economy and its features</li> <li>• Understanding the basic problems of Indian economy</li> <li>• Studying the agriculture pattern , problems and the potential solutions</li> <li>• Studying the Industrial development , its role and various industrial policies</li> </ul>