



फूल सिंह बिष्ट राजकीय महाविद्यालय नौघर

लम्बगाँव टिहरी गढ़वाल (उत्तराखण्ड) 249165

Website: www.psbcollegelambgaon.in

E-mail : gdclambgaon2001@gmail.com

mobile 7078802868

2.6.1 Supporting Document

PROGRAM OUTCOMES (POs), COURSE OUTCOMES (COs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

Department of English

{Ms. Anukriti Badola}

Subject prerequisites:

1. To learn English, the learner must have had the subject at 10 + 2.
2. Students must have a basic knowledge of English.

Course Introduction

English plays an essential role in our lives. This is the main language for studying all subjects around the world. English is important for students because it improves their quality of life by broadening their horizons, developing emotional skills, and providing employment opportunities. In addition, the use of English as an international language has increased over time as it is the only means of communication in many countries.

Learning English opens up a world of inspiration and creativity while developing the skills that are essential to today's global environment. This is your chance to learn how literature describes the world through stories, poetry, novels and plays. It's also an opportunity to hone your own writing, reading, analysis and persuasiveness. Through extensive reading and writing, students in our BA program will develop their analytical, interpretation and self-expression skills.

Program outcomes (POs):

This Undergraduate Program in English aims to

PO 1	Provide students an extensive view of the cultural and social patterns of the society in the specific time and situations in which it flourished resulting in an intellectual and emotional engagement with the work.
------	---

PO2	Sensitize students to the aesthetic, cultural and social aspects of literature.
PO 3	Augment the understanding of fundamental tenets of classical literature.
PO 4	Make students aware of the different kinds of literature written/translated in various English-speaking countries across the world as well as the literature from Asia.
PO 5	Develop an understanding of the various connotations of the term 'New Literatures'. and the difference from other terms like Commonwealth Literature etc.
PO 6	Develop an insight regarding the idea of world literature and the pertinent issues like feminism and diasporic relocations.
PO 7	Comprehend and contextualize contemporary films adapted from literature, to describe objectively its importance and usefulness for the society while analyzing its plot and characters.
PO 8	Develop English language skill keeping in mind its importance as a global language.
PO 9	Provide job opportunities through 'skill-based' courses.

PO 10	Recreate a response through creative indulgences like script-writing, dialogue writing, and be able to exploit his/her creative potential through online media like blogging.
--------------	---

PO 11	Students will become effective thinkers and communicators after learning various strategies of drafting and revising, style of writing and analytical skills, and use of language as a means of creative expression.
PO 12	Comprehend translation as a useful bridge between various linguistic regions.
PO 13	Acquire basic skills to pursue translation as research and career.
PO 14	Assist students in the development of intellectual flexibility, creativity, and cultural literacy so that they may engage in life-long learning.
PO 15	Inculcate in them the skills of reporting, editing and feature writing in print medium to have a career perspective in media and journalism.
PO 16	Create a possibility to emerge as prospective writers, editors, content developers, teachers etc.

Program specific outcomes (PSOs):
UG I Year / Certificate course in Arts

After this course, the learners will be able to:

1. Understand the significance and prospects of studying English language and literature.
2. Get an introductory knowledge of the development and significance of literature in English.
3. Develop an understanding of the basic prose devices to read, identify and analyze various literary forms of prose.
4. Learn the art of story-telling through short stories and define its basic elements such as plot, characterization and narrative technique.
5. Be acquainted with the representative writers from 16th century to 21th century.
6. Develop an acquaintance with major religious, political and social movements of various ages.
7. Develop their critical thinking skills & comprehend life skills through the study of prose/short fiction.
8. Develop their own creativity by enhancing their writing skills.
9. Get enhanced/enriched vocabulary to demonstrate a significant modification in their speaking skills and writing techniques.
10. Organize and write paragraphs and short essays in a variety of rhetorical Styles.
11. Face interviews and make presentations.

Program specific outcomes (PSOs):
UG II Year/ Diploma in Arts

Course Code:
UGENG-CC101

Course Title: Introduction to English Prose

Course Outcomes:

After studying this course, the students will be able to:

- Gain an introductory knowledge of the development and significance of literature in English.
- Have an introductory study of forms such as Drama and Novel.
- Apprehend the art of story-telling through short-stories and define its basic elements such as plot, plot-structure, characterization, and narrative technique.
- Critically evaluate the style and contributions of some of the greatest short-story writers, including Indian writers towards the development of short-story as a genre.
- Define and distinguish various types of prose and prose- styles.
- Understand important terms pertaining to prose writings, including various stylistic and figurative devices.
- Apprehend the growth of English essays through the contributions of some of the greatest essayist.
- Comprehend the wide variety of subject matter that the genre serves.

After this course, the learners will be able to:

1. Develop an understanding of the various literary forms of poetry.
2. Critically analyze poems with an understanding of its basic elements.
3. Learn about the transition of poetic style and forms from Elizabethan age to the 20th century.
4. Understand feminism's concerns of equality with men.
5. Comprehend translation as a useful bridge between various linguistic regions.
6. Understand the history, significance and scope of translation, in Indian context.
7. Identify and use some of the tools of technology for translation.
8. Learn the effective techniques of written communication.
9. Improve their grammatical competence.

Course Code:
UGENG-CC103

Course Title: History of English Literature

Course Outcomes:

After studying this course, the students will be able to:

- Develop an understanding of the evolution of English Literature, the concept, causes and the impact of Renaissance and Reformation.
- Trace the origin and development of English drama through Miracle and Morality plays and the plays of University Wits.
- Develop an acquaintance with major religious, political and social movements from 15th to 20th century and their influence on English literature.
- Understand the characteristics of Elizabethan and Metaphysical poetry and special Features of Neo-classical age and its literature.
- Identify the reasons of the emergence of prose and novels and the decline of drama in England in the 18th century.
- Comprehend the role of French Revolution in the evolution of romanticism in literature.
- Develop an understanding of the evolution of English Literature, the concept, causes and the impact of Renaissance and Reformation.
- Comprehend the basic difference and special characteristics of the major literary tendencies of various ages and develop familiarity with major literary works by British writers in the field of Poetry, Drama and Fiction.

Course Code:
UGENG-CC201

Course Title: British Poetry

Course Outcomes: After studying this course, the students will be able to:

- Identify various forms of poetry and understand the development of these forms in the works of greatest practitioners of these poetic forms.
- Characterize some basic stanza patterns, their origin and development.
- Critically analyze poems with an understanding of its basic elements.
- Assess the contribution of the representative poets of these Ages towards the growth of English poetry and appreciate their poetic genius.
- Understand and gain informative understanding of the poems written by modern British poets.
- Strengthens the broader understanding to the study of the British poetry.
- Learn about transition of poetic style and forms with changing times.
- Gain information about Irish poetry, war poems and modern poems.
- Learn about changing style and how imagism as a movement in arts influenced the poets.

Course Code:
UGENG-CC203

Course Title: Women's Writing and Indian Literature in Translation

Course Outcomes:

This course aims to

- Help students understand the social construction of woman by patriarchy.
- Examine feminism's concerns of equality with men.
- Highlight the structural oppression of women.
- Foreground resistance by women.
- Discuss women's writing as an act of resistance and of grasping agency.
- Facilitate an understanding of the body of woman and its lived experience.
- Help students engage with the heterogeneity of the oppression of women in different places, historically and socially.
- Understand the rich and diverse tradition of literatures written in regional and vernacular languages.
- Develop a comparative and intertextual approach to analyse literatures.
- Develop an appreciation of the diverse multilingual and multicultural ethos of India.
- Enhance job opportunities by fostering translation skills.
- Critically appreciate the poems of Kabir and gain an understanding of his philosophy and assess the strength of Rabindranath Tagore as a translator.

Course Code: UGENG-CC301	Course Title: Introduction to Literature and Film
Course Outcomes:	
<p>Literature and film have had a close relationship with one another manifest in the celluloid 'adaptation' of classics and 'inspired' productions in the earlier days to the film text studies of recent times. The writer and the auteur both produce art that oftentimes is in conversation particularly since the cultural revolution of modernism.</p> <ul style="list-style-type: none"> • This paper attempts to trace the genealogy of this collaborative mediation between literature and cinema between the textual and the visual. • Develop an understanding of the technical terminology associated with film and media studies. • Interpret films as text and evaluate them critically. • Appraise the process of adaption of texts into films. 	

Course Code: UGENG-CC302	Course Title: Partition Literature
Course Outcomes:	
<p>The course aims to understand contending interpretation of partition history. The students will be reading a variety of different historical interpretation of partition.</p>	

Course Code: UGENGRP-303	Course Title: Research Project: An Introduction
Course Outcomes:	
<ul style="list-style-type: none"> • Understand the importance of research and research methodology. • Learn how to conduct research projects. • Learn to prepare research project. 	

Course Code: UGENG-CC304	Course Title: Regional Literature with Special Reference to Literature of Uttarakhand
Course Outcomes: After completing this course, the students will be able to: <ul style="list-style-type: none"> • Develop an understanding of the themes, styles and critical sensibilities of poets like Toru Dutt, Nissim Ezekiel, Javanta Mahapatra and Keki N. Daruwala. • These texts would be read closely to develop understanding of the key concepts and themes of Regional Literature. • Critically analyse drama as a medium of exploration of existing social issues and prejudices through the works of Girish Karnad. 	
<ul style="list-style-type: none"> • Critically analyse texts from a Postcolonial perspective. • Familiarize themselves with the similar (yet different) socio-historic conditions reflected in the literature of the various colonies. • Comprehend how 'New Literatures' incorporates very different literary products, each with its own cultural, social and geographical specificity. • Comprehend and analyse the poetic discourses of poets like Pablo Neruda, Margaret Atwood, and Dennis Brutus and the variations in their themes and styles. • Comprehend the issues of identity, diaspora and marginalization as explored in the texts prescribed. • Develop an understanding of Postcolonialism and recognise the strategies deployed by Postcolonial writers to resist cultural oppression. 	

Course Code: UGENGRP-306	Course Title: Preparing a Research Proposal
Course Outcomes: <ul style="list-style-type: none"> • Learn how to conduct research projects. • Learn to prepare research paper. • Learn to prepare research project. 	

Department of Hindi

{Dr. Vipin Kumar Sharma}

COURSE INTRODUCTION

Programme outcomes (POs):

1. साहित्य मानव संवेदना की अभिव्यक्ति का प्रमुख स्रोत रहा है। कलाओं में यह सम्पूर्ण कला है। साहित्य समाज का प्रतिदर्श है। स्नातक उपाधि में इस विषय के चयन व अध्ययन से शिक्षार्थी को साहित्य के सांगोपांग महत्व का ज्ञान होता है।
2. शिक्षार्थी को राष्ट्र की सर्वप्रमुख भाषा हिन्दी के अत्यन्त समृद्ध साहित्य के सम्पूर्ण स्वरूप का ज्ञान होता है।
3. शिक्षार्थी को हिन्दी साहित्य की सभी प्रमुख विधाओं का ज्ञान होता है, जिससे उसमें रचनात्मकता का प्रस्फुटन एवं विकास होता है।
4. शिक्षार्थी को जीवन के आजीविकोपार्जन सम्बन्धी पक्ष के रूप में हिन्दी के प्रयोजनमूलक स्वरूप व महत्व का ज्ञान एवं प्रशिक्षण होता है।
5. साहित्य के अध्ययन में अन्य अनुशासनों के सन्दर्भ यथा सामाजिक, मनोवैज्ञानिक, राजनीतिक, आर्थिक, ऐतिहासिक, पर्यावरणीय आदि समाहित होते हैं। स्नातक में हिन्दी साहित्य का चयन शिक्षार्थी को समग्र रूप से शिक्षित करता है।
6. शिक्षार्थी संघ लोक सेवा आयोग एवं प्रादेशिक लोक सेवा आयोगों के परीक्षा पाठ्यक्रम में सम्मिलित हिन्दी साहित्य की आधार व अनिवार्य शिक्षा प्राप्त करता है।

Programme specific outcomes (PSOs):

UG I Year / Certificate course Arts with Hindi

1. शिक्षार्थी स्नातक प्रमाण पत्र पाठ्यक्रम के अन्तर्गत मुख्य विषय के रूप में हिन्दी की प्राचीन एवं मध्यकालीन कविता तथा कथा साहित्य का आधारभूत ज्ञान प्राप्त करेगा।
2. शिक्षार्थी स्नातक प्रमाण पत्र पाठ्यक्रम के अन्तर्गत वैकल्पिक/सहायक विषय के रूप में हिन्दी व्याकरण का ज्ञान एवं व्यावहारिक प्रशिक्षण प्राप्त करेगा। विकल्प के रूप में यह चयन प्रतियोगी परीक्षाओं में सहायक एवं उपयोगी सिद्ध होगा।
3. शिक्षार्थी प्रमाण पत्र वर्ष में एवं कौशल संवर्द्धन पाठ्यक्रम के रूप में प्रयोजनमूलक हिन्दी का ज्ञान एवं व्यावहारिक प्रशिक्षण प्राप्त करेगा।
4. प्रथम वर्ष में शिक्षा में बाधा हो जाने की स्थिति में शिक्षार्थी हिन्दी तथा अन्य विषयों के साथ स्नातक प्रमाण-पत्र प्राप्त करेगा, जिसका लाभ उसे आजाविका प्राप्त करने में प्राप्त होगा।

Programme specific outcomes (PSOs): <i>UG II Year/ (Diploma in ARTS with Hindi</i>	
	<ol style="list-style-type: none"> 1. शिक्षार्थी स्नातक डिप्लोमा पाठ्यक्रम के अन्तर्गत मुख्य विषय के रूप में हिन्दी की रीतिकालीन कविता व काव्यांग परिचय तथा नाटक एवं स्मारक साहित्य का आधारभूत ज्ञान प्राप्त करेगा। 2. शिक्षार्थी स्नातक डिप्लोमा पाठ्यक्रम के अन्तर्गत वैकल्पिक/सहायक विषय के रूप में हिन्दी भाषा के स्वरूप का ज्ञान एवं व्यावहारिक प्रशिक्षण प्राप्त करेगा। विकल्प के रूप में यह चयन प्रतियोगी परीक्षाओं में सहायक एवं उपयोगी सिद्ध होगा। 3. शिक्षार्थी डिप्लोमा वर्ष में एवं कौशल संवर्द्धन पाठ्यक्रम के रूप में हिन्दी पत्रकारिता का ज्ञान एवं व्यावहारिक प्रशिक्षण प्राप्त करेगा। 4. शिक्षा में बाधा हो जाने की स्थिति में शिक्षार्थी हिन्दी तथा अन्य विषयों के साथ स्नातक डिप्लोमा प्राप्त करेगा, जिसका लाभ उसे आजीविका प्राप्त करने में प्राप्त होगा।

Programme specific outcomes (PSOs): <i>UG III Year / Bachelor of ARTS with Hindi</i>	
PSO 1	1. शिक्षार्थी स्नातक उपाधि वर्ष पाठ्यक्रम के अन्तर्गत मुख्य विषय के रूप में हिन्दी की द्विवेदीयुगीन, छायावादी तथा छायावादोत्तर एवं समकालीन कविता, हिन्दी निबन्ध एवं लोक-साहित्य का आधारभूत ज्ञान प्राप्त करेगा।
PSO2	2. शिक्षार्थी के पास उपाधि वर्ष में विगत वर्षों के अध्ययन से हिन्दी साहित्य के विविध पक्षों तथा उनके अकादमिक स्वरूप ज्ञान होगा, उसे हिन्दी भाषा के व्याकरण एवं स्वरूप का ज्ञान होगा, उसे कार्यालयी हिन्दी तथा पत्रकारिता जैसे रोजगारपरक विषयों का ज्ञान होगा और वह आगे की शिक्षा एवं शोध के लिए भाषा तथा साहित्य के उच्चस्तरीय आधारभूत ज्ञान व कुशलता के साथ उपाधि प्राप्त करेगा।

CERTIFICATE COURSE IN UG		
Programme: Certificate Course in ARTS-Hindi		Year: I/Semester: I/Paper: I
Course Code:	Course Title: प्राचीन एवं भक्तिकालीन काव्य	Subject: Hindi
Course Outcomes:		
<ol style="list-style-type: none"> 1. शिक्षार्थी हिन्दी साहित्य के आरम्भिक काल की कविता का ऐतिहासिक एवं सैद्धांतिक ज्ञान सोदाहरण प्राप्त करता है। 2. शिक्षार्थी चंदबरदाई, कबीर, जायसी, सूर और तुलसी के कृतित्व को समझने के क्रम में महाकाव्य विधा एवं मुक्तक विधा का शिल्पगत परिचय व ज्ञान पाता है। 3. शिक्षार्थी आदिकालीन वीरकाव्य, निर्गुण काव्यधारा व संत साहित्य का सैद्धांतिक परिचय व ज्ञान सोदाहरण पाता है। 4. शिक्षार्थी सूफी काव्यधारा, सगुण काव्यधारा तथा इनके अंतर्गत रामभक्ति और कृष्णभक्ति के महत्वपूर्ण काव्य का सैद्धांतिक परिचय व ज्ञान सोदाहरण प्राप्त करता है। 		
Credit: 6		

CERTIFICATE COURSE IN UG		
Programme: Certificate Course in ARTS – Hindi		Year: I/Semester: I Paper: II
		Subject: Hindi
Course Code:	Course Title: हिन्दी भाषा : व्याकरण	
Course Outcomes:		
<ol style="list-style-type: none"> 1. शिक्षार्थी हिन्दी भाषा के व्यावहारिक प्रयोजनार्थ वर्तनी एवं शब्दों के मानक स्वरूप का ज्ञान व प्रशिक्षण पाता है। 2. शिक्षार्थी व्यावहारिक प्रयोजनार्थ शुद्ध लेखन हेतु हिन्दी की वाक्य-संरचना एवं व्याकरण का ज्ञान व प्रशिक्षण पाता है। 3. शिक्षार्थी को व्यावहारिक-व्यावसायिक प्रयोजनार्थ हिन्दी भाषा की अत्यन्त समृद्ध शब्द सम्पदा तथा उसकी समाहार-समायोजन शक्ति का ज्ञान होता है। 4. शिक्षार्थी कार्यालयी प्रयोजनार्थ पारिभाषिक – प्रतिपारिभाषिक शब्दों के प्रयोग का ज्ञान व प्रशिक्षण पाता है। 		

Course Code:	Course Title: हिंदी कथा-साहित्य	
Course Outcomes:		
<ol style="list-style-type: none"> 1. शिक्षार्थी हिन्दी की कथा परम्परा का परिचय व ज्ञान प्राप्त करता है। 2. शिक्षार्थी हिन्दी उपन्यास के उद्भव और विकास का ज्ञान प्राप्त करता है। 3. शिक्षार्थी हिन्दी कहानी के उद्भव और विकास का ज्ञान प्राप्त करता है। 4. शिक्षार्थी पाठ्यक्रम में सम्मिलित उपन्यास के अध्ययन से उपन्यास विधा का शिल्पगत ज्ञान प्राप्त करता है। 5. शिक्षार्थी पाठ्यक्रम में सम्मिलित कहानियों के आधार पर कहानी विधा का शिल्पगत ज्ञान प्राप्त करता है। 6. शिक्षार्थी कथा-साहित्य की समीक्षा का ज्ञान प्राप्त करता है। 		

Course Code:	Course Title: रीतिकालीन काव्य	
Course Outcomes:		
<ol style="list-style-type: none"> 1. शिक्षार्थी हिन्दी साहित्य के तीसरे काल रीतिकाल के विषय में ऐतिहासिक एवं सैद्धांतिक ज्ञान प्राप्त करता है। 2. शिक्षार्थी पाठ्यक्रम में सम्मिलित कविताओं के आधार पर रीतिकालीन कविता की कला और शिल्प का ज्ञान प्राप्त करता है। 3. शिक्षार्थी रीतिकालीन काव्य की प्रवृत्तियों का ज्ञान प्राप्त करता है। 4. शिक्षार्थी प्रमुख रीतिकालीन कवियों से परिचय प्राप्त करता है। 		

Course Code:	Course Title: हिन्दी भाषा : स्वरूप
Course Outcomes:	
<ol style="list-style-type: none"> 1. शिक्षार्थी को हिन्दी भाषा के विस्तृत व समृद्ध इतिहास व विकास का ज्ञान होता है। 2. शिक्षार्थी को हिन्दी की शैलियों यथा हिन्दी, हिन्दुस्तानी व उर्दू का ज्ञान होता है, जो भाषा के व्यावहारिक प्रयोग में काम आता है। 3. शिक्षार्थी को हिन्दी की बोलियों का ज्ञान होता है, जिसके आधार पर वह अपने भाषा संस्कारों को समृद्ध करता है तथा सम्पर्क भाषा के रूप में हिन्दी का प्रयोग अधिक कुशलता के साथ कर पाता है। 4. शिक्षार्थी को राजभाषा के रूप में हिन्दी की संवैधानिक स्थिति का ज्ञान होता है, जिसकी आवश्यकता उसे सरकारी सेवाओं में होती है। 5. शिक्षार्थी विभिन्न व्यावहारिक व व्यावसायिक प्रयोजनों हेतु हिन्दी के मानकीकृत रूप का ज्ञान व प्रशिक्षण पाता है। 6. शिक्षार्थी कम्प्यूटर व इंटरनेट की तकनीक में हिन्दी के प्रयोग का आरंभिक ज्ञान व प्रशिक्षण पाता है। 	

Course Title: कार्यालयी हिन्दी

Course Outcomes:

1. शिक्षार्थी कार्यालयी हिन्दी से अभिप्राय क्षेत्र एवं उद्देश्य, सामान्य एवं कार्यालयी हिन्दी में अन्तः सम्बन्ध आदि से परिचित होता है।
2. शिक्षार्थी कार्यालयी हिन्दी की पारिभाषिक शब्दावली से परिचित होता है।
3. शिक्षार्थी कार्यालय से निर्गत पत्र (ज्ञापन, परिपत्र, आदेश, निविदा आदि)का ज्ञान प्राप्त करता है।
4. शिक्षार्थी का प्रारूपण, संक्षेपण, पल्लवन, टिप्पण आदि विविध पक्षों से परिचय होता है।
5. शिक्षार्थी का कार्यालयों में रोजगार हेतु कौशल संवर्धन होता है।

Course Code:	Course Title: नाटक एवं स्मारक साहित्य
Course Outcomes:	
<ol style="list-style-type: none"> 1. शिक्षार्थी नाटक की भारतीय एवं पाश्चात्य परम्पराओं का ज्ञान प्राप्त करता है। 2. शिक्षार्थी नाटक के स्वरूप एवं प्रकारों का ज्ञान प्राप्त करता है। 3. शिक्षार्थी पाठ्यक्रम में सम्मिलित नाटक के अध्ययन के आधार पर नाट्यसमीक्षा का ज्ञान प्राप्त करता है। 4. शिक्षार्थी को हिन्दी में स्मारक साहित्य लेखन परम्परा का ज्ञान होता है। 5. शिक्षार्थी को स्मारक साहित्य के स्वरूप व उसकी विधाओं का ज्ञान प्राप्त होता है। 6. शिक्षार्थी को महान साहित्यकारों के जीवन से जुड़ी घटनाओं को पढ़ने से उच्च जीवन मूल्यों की शिक्षा व प्रेरणा प्राप्त होती है। 	

Course Title: रचनात्मक लेखन

Course Outcomes:

1. शिक्षार्थी रचनात्मक लेखन से परिचित होता है।
2. शिक्षार्थी विविध अभिव्यक्ति क्षेत्र का ज्ञान प्राप्त करता है।
3. शिक्षार्थी का लेखन के विविध रूपों से परिचय होता है।
4. शिक्षार्थी प्रिंटमाध्यम के विविध रूपों से परिचित होता है।
5. शिक्षार्थी का रोजगार हेतु कौशल संवर्धन होता है।

Course Code:	Course Title: द्विवेदी युगीन एवं छायावादी काव्य
Course Outcomes:	
1. शिक्षार्थी हिन्दी के द्विवेदी युग व नवजागरण काल के विषय में ऐतिहासिक व सैद्धान्तिक ज्ञान प्राप्त करता है।	
2. शिक्षार्थी हिन्दी कविता के छायावाद युग का ऐतिहासिक व सैद्धान्तिक ज्ञान प्राप्त करता है।	
3. शिक्षार्थी खड़ी बोली हिन्दी की आरम्भिक समर्थ काव्य-परम्परा का ज्ञान प्राप्त करता है।	
4. शिक्षार्थी पाठ्यक्रम में सम्मिलित द्विवेदीयुगीन कविताओं के अध्ययन से तत्कालीन हिन्दी कविता के स्वरूप, महत्व तथा शिल्प का ज्ञान प्राप्त करता है।	
5. शिक्षार्थी पाठ्यक्रम में सम्मिलित छायावादयुगीन कविताओं के अध्ययन से तत्कालीन हिन्दी कविता के स्वरूप, महत्व तथा शिल्प का ज्ञान प्राप्त करता है।	
6. शिक्षार्थी आधुनिक कविता की समीक्षा का ज्ञान एवं प्रशिक्षण प्राप्त करता है।	

Hindi	
Course Code:	Course Title: लघुशोध अध्ययन एवं कार्य - हिन्दी की वैज्ञानिक एवं तकनीकी शब्दावली
Course Outcomes:	
शिक्षार्थी इस लघुशोधात्मक अध्ययन एवं कार्य के माध्यम से हिन्दी की वैज्ञानिक एवं तकनीकी शब्दावली का ज्ञान प्राप्त करता है। विज्ञान एवं तकनीकी के क्षेत्र में हिन्दी के प्रसार के लिए यह अध्ययन आवश्यक है।	
Credits: 4	

Course Code:	Course Title: हिंदी निबंध
Course Outcomes:	
1. शिक्षार्थी निबंध विधा के स्वरूप का ज्ञान प्राप्त करता है।	
2. शिक्षार्थी हिन्दी में निबंध विधा के उद्भव और विकास का ज्ञान प्राप्त करता है।	
3. शिक्षार्थी सामाजिक व साहित्यिक विषयों से निबंध के वैचारिक सम्बन्ध तथा अभिव्यक्ति का ज्ञान प्राप्त करता है।	
4. शिक्षार्थी निबंध के प्रकारों का ज्ञान प्राप्त करता है।	
5. शिक्षार्थी पाठ्यक्रम में सम्मिलित निबंधकारों के अध्ययन से विचार के क्षेत्र में मौलिक अभिव्यक्ति का ज्ञान एवं प्रशिक्षण प्राप्त करता है।	

Course Code:	Course Title: लोक साहित्य
Course Outcomes: <ol style="list-style-type: none">1. शिक्षार्थी साहित्य के लोकपक्ष का ऐतिहासिक तथा सैद्धान्तिक ज्ञान प्राप्त करता है।2. शिक्षार्थी लोक साहित्य के स्वरूप, अध्ययन की प्रविधियों, संकलन प्रक्रिया आदि का प्रशिक्षण एवं ज्ञान प्राप्त करता है।3. शिक्षार्थी लोक संस्कृति का ज्ञान प्राप्त करता है।4. शिक्षार्थी लोकगीतों के स्वरूप, उनके सामाजिक-सांस्कृतिक स्रोतों तथा विविध रूपों का ज्ञान प्राप्त करता है।5. शिक्षार्थी लोक नाट्य के स्वरूप, उसके सामाजिक-सांस्कृतिक स्रोतों तथा विविध रूपों का ज्ञान प्राप्त करता है।6. शिक्षार्थी लोककथाओं के स्वरूप, उनके सामाजिक-सांस्कृतिक स्रोतों तथा विविध रूपों का ज्ञान प्राप्त करता है।7. शिक्षार्थी लोकगाथाओं के स्वरूप, उनके सामाजिक-सांस्कृतिक स्रोतों तथा विविध रूपों का ज्ञान प्राप्त करता है।8. शिक्षार्थी पाठ्यक्रम में सम्मिलित लोक साहित्य के अध्ययन द्वारा लोक का व्यावहारिक ज्ञान प्राप्त करता है।	

Department of Sanskrit

{Dr. Shubham Uniyal}

COURSE INTRODUCTION

Programme outcomes (POs):	
PO1	साहित्य मानव संवेदना की अभिव्यक्ति का प्रमुख स्रोत रहा है। कलाओं में यह सम्पूर्ण कला है। साहित्य- समाज का दर्पण है। स्नातक उपाधि में इस विषय के चयन से विद्यार्थी साहित्य के अध्ययन से तात्कालिक समाज एवं संस्कृति से अवगत होगा।
PO2	सहज एवं स्वाभाविक रूप से भाषा-कौशल प्राप्त कर उनमें प्रभावशाली अभिव्यक्ति की क्षमता उत्पन्न होगी।
PO3	आत्मविश्वास से युक्त एवं नेतृत्व क्षमता प्राप्त होगी।
PO4	मूल्यपरक व्यक्तित्व से युक्त होकर भारतीयता के बोध के साथ वैश्विक नागरिक के रूप में भावी चुनौतियों का सामना करने में सक्षम होंगे।
PO5	विद्यार्थी संघ लोक सेवा आयोग एवं प्रादेशिक लोक सेवा आयोगों के परीक्षा पाठ्यक्रम में सम्मिलित संस्कृत साहित्य की आधार एवं अनिवार्य शिक्षा प्राप्त कर सकेंगे।
PO6	विद्यार्थियों का लेखन, वाचन एवं अध्ययन की दृष्टि से भाषागत दक्षता प्राप्त हो सकेगी।
Programme specific outcomes (PSOs):	
<i>UG I Year / Certificate cours Arts with Sanskrit</i>	
1. सर्वाधिक वैज्ञानिक भाषा के रूप में संस्कृत भाषा के प्राचीन महत्व एवं उसकी वर्तमान प्रासंगिकता को जानने-समझने योग्य होंगे। 2. संस्कृत साहित्य के विभिन्न विषयों यथा नीतिसाहित्य, व्याकरण, महाकाव्य, छन्द, अलङ्कार एवं नाटक इत्यादि से सुपरिचित होकर संस्कृत विषय के महत्व का बोध होगा। 3. संस्कृत भाषा अध्ययन, सम्भाषण, से जीविकोपार्जन के योग्य हो जायेंगे।	
Programme specific outcomes (PSOs):	
<i>UG II Year/ Diploma in Arts with Sanskrit</i>	
1. संस्कृतसाहित्य, भारतीय संस्कृति, व्याकरण का बोध हो सकेगा। 2. श्रीमद्भगवद्गीता के अध्ययन से आत्मप्रबन्धन में कुशल होंगे। 3. धर्म-दर्शन, आचार-व्यवहार, नीतिशास्त्र के मूलतत्त्वों को जानकर उत्तम चरित्रवान् मानव एवं कुशल नागरिक बनेंगे। 4. संस्कृत साहित्य के अन्तर्गत प्राचीन-अर्वाचीन संस्कृत साहित्यकारों की कृतियों में निबद्ध समसामयिक विषय का बोध होगा।	

Programme specific outcomes (PSOs):	
<i>UG III Year / Bachelor of Arts with Sanskrit</i>	
PSO1	विद्यार्थी स्नातक उपाधि पाठ्यक्रम के अन्तर्गत मुख्य विषय के रूप में साहित्य शास्त्र, दर्शन एवं व्याकरण का आधारभूत ज्ञान प्राप्त करेंगे।
PSO2	पाठ्यक्रम के अन्तर्गत, उपनिषद् पुराण एवं स्तोत्रकाव्य से परिचित होंगे।
PSO3	स्नातक उपाधि के पाठ्यक्रम में विद्यार्थी वैदिकवाङ्मय, एवं धर्मशास्त्र का ज्ञान प्राप्त करेंगे।
PSO4	पाठ्यक्रम के अन्तर्गत भारतीय ज्ञानपरम्परा के अन्तर्गत भारतीय दर्शन, एवं नीतिकथाओं के अध्ययन से विद्यार्थी का चारित्रिक उन्नयन होगा।
PSO5	पाठ्यक्रम के अन्तर्गत स्मृति साहित्य का अध्ययन कर उसके महत्व से परिचित होंगे।
PSO6	कौटिलीय अर्थशास्त्र के अध्ययन से विद्यार्थी परिचित होंगे। इस प्रकार धर्म-दर्शन, आचार-व्यवहार, नीतिशास्त्र के मूल तत्त्वों को जानकर उत्तम चरित्रवान् मानव एवं कुशल नागरिक बनेंगे। प्रस्तावित विषय-संस्कृत साहित्य की विविध विधाओं एवं वैदिक वाङ्मय पर आधारित विषय पर लघु शोध कार्य से विद्यार्थियों की शोधपरक बुद्धि का विकास होगा। सर्वेक्षण, अन्वेषण एवं मनन-चिन्तन से उनका बौद्धिक स्तर बढ़ेगा साथ ही समसामयिक समस्या के निदान का मार्ग भी प्रशस्त होगा।

CERTIFICATE COURSE IN UG		
Programme: <i>Certificate Course in Arts- Sanskrit</i>		Year: I
		Semester: I Paper-I
Subject: Sanskrit		
CourseCode: SANCC101	Course Title: संस्कृत नीति साहित्य एवं व्याकरण	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी संस्कृत नीति साहित्य से परिचित हो सकेंगे। संस्कृत नीतिसाहित्य की सुगीतात्मकता का सौंदर्यबोध कर सकेंगे। नीति साहित्य में प्रयुक्त नैतिक शिक्षा का बोध कर सकेंगे। संस्कृत व्याकरण का सामान्य ज्ञान प्राप्त कर उसकी वैज्ञानिकता से सुपरिचित हो सकेंगे। संस्कृत वर्णों के शुद्ध उच्चारण कौशल का विकास होगा। स्वर एवं व्यंजन के मूल भेद को समझ कर पृथक् अर्थावगमन की क्षमता उत्पन्न होगी। स्वर, व्यंजन एवं विसर्ग संधि का विशिष्ट ज्ञान एवं उनके अनुप्रयोग का कौशल विकसित होगा। 		

CERTIFICATE COURSE IN UG		
Programme: <i>Certificate Course in Arts- Sanskrit</i>		Year: I
		Semester: I or II
Subject: Sanskrit		
CourseCode: SANME103	Course Title: संस्कृत भाषा अध्ययन	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> संस्कृतभाषा का अध्ययन करने से विद्यार्थियों में व्याकरण के प्रति रुचि उत्पन्न हो सकेंगी। संस्कृतभाषा को स्नातक-कलावर्ग के अतिरिक्त वाणिज्य एवं विज्ञानवर्ग के विद्यार्थी भी पढ़ सकते हैं। संस्कृतभाषा के ज्ञान से नैतिकमूल्यों, आध्यात्मिकमूल्यों से युक्त ग्रन्थों के अध्ययन में सुगमता प्राप्त होगी। मूल्यपरक ग्रन्थों के बोध से अपने जीवन का लक्ष्य पूर्ण करने समर्थ होंगे। संस्कृतभाषा के अध्ययन से विद्यार्थी अन्य भाषा के स्रोत को सरलता से समझ सकते हैं। संस्कृतसम्भाषण से विद्यार्थियों की वाकशक्ति का विकास होगा। 		

CERTIFICATE COURSE IN UG		
Programme: <i>Certificate Course in Arts- Sanskrit</i>		Year: I
		Semester: II Paper-I
Subject: Sanskrit		
CourseCode: SANCC102	Course Title: संस्कृतमहाकाव्य, छन्दोऽलंकार एवं नाटक	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी संस्कृत साहित्य का सामान्य परिचय प्राप्त कर काव्य के विभिन्न भेदों से परिचित हो सकेंगे। संस्कृत महाकाव्य के अध्ययन से उनमें निहित महान् चरित्रों का अध्ययन कर आत्मसात् करेंगे। विद्यार्थी संस्कृत महाकाव्य में प्रयुक्त रस, छन्द, अलंकारों को समझने की क्षमता प्राप्त करेंगे। संस्कृत महाकाव्यों में निहित सूक्तों एवं सुभाषित वाक्यों के माध्यम से विद्यार्थियों का नैतिक एवं चारित्रिक उन्नयन होगा। संस्कृत नाटक के अध्ययन से विद्यार्थी संस्कृत नाट्य साहित्य को सामान्य रूप से समझने में सक्षम होंगे। नाटक की पारिभाषिक शब्दावली से सुपरिचित होंगे तथा संवाद एवं अभिनय कौशल में पारंगत होंगे। 		

DIPLOMA COURSE IN UG		
Programme: <i>Diploma Course in Arts- Sanskrit</i>		Year: II
		Semester: III Paper-I
Subject: Sanskrit		
CourseCode: SANCC201	Course Title: संस्कृत साहित्य, भारतीय संस्कृति एवं व्याकरण	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी संस्कृत साहित्य का सामान्य परिचय प्राप्त कर काव्य रचनाओं से परिचित हो सकेंगे। भारतीय संस्कृति के अध्ययन से विद्यार्थी संस्कृति की विशेषताओं से परिचित होंगे जिससे उनका नैतिक एवं चारित्रिक उत्कर्ष होगा। भारतीय सांस्कृतिक तत्त्वों एवं मूल्यों को आत्मसात् कर भारतीयता के गर्व बोध से युक्त उत्तम नागरिक बनेंगे। संस्कृत व्याकरण का ज्ञान प्राप्त कर उसकी वैज्ञानिकता से सुपरिचित हो सकेंगे। 		

DIPLOMA COURSE IN UG		
Programme: <i>Diploma Course in Arts- Sanskrit</i>		Year: II
		Semester: III or IV
Subject: Sanskrit		
CourseCode: SANME203	Course Title: श्रीमद्भगवद्गीता का अध्ययन	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी श्रीमद्भगवद्गीता के अन्तर्गत प्रतिपाद्य विषय से अवगत हो सकेंगे। श्रीमद्भगवद्गीता के माध्यम से कर्मसिद्धान्त एवं अध्यात्मज्ञान प्राप्त कर सकेंगे। मानवजीवन में ज्ञान के महत्त्व को आत्मसात करने में सक्षम होंगे। विद्यार्थी आत्मप्रबन्धन के क्षेत्र में दक्षता प्राप्त कर सकेंगे। 		
DIPLOMA COURSE IN UG		
Programme: <i>Diploma Course in Arts- Sanskrit</i>		Year: II
		Semester: IV Paper-I
Subject: Sanskrit		
CourseCode: SANCC202	Course Title: संस्कृत साहित्य, साहित्यकार परिचय एवं निबन्ध	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी संस्कृत साहित्य का सामान्य ज्ञान प्राप्त कर पद्यसाहित्य एवं गद्यसाहित्य से सुपरिचित हो सकेंगे। सम्बन्धित साहित्य के अध्ययन से पद्यसाहित्य की सुगीतात्मकता का सौन्दर्य बोध कर सकेंगे। सम्बन्धित साहित्य के माध्यम से उनका नैतिक एवं चारित्रिक उत्कर्ष होगा। प्राचीन एवं अर्वाचीन संस्कृत साहित्यकारों के अध्ययन से प्रेरणा प्राप्त कर सकेंगे। विद्यार्थियों में निबन्ध एवं अनुच्छेद लेखन क्षमता को विकास होगा। 		
DEGREE COURSE IN UG		
Programme: <i>Degree Course in Arts- Sanskrit</i>		Year: III
		Semester: V Paper-I
Subject: Sanskrit		
CourseCode: SANCC301	Course Title: काव्यशास्त्र, दर्शन एवं व्याकरण	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी काव्यशास्त्र के उद्भव और विकास से सुपरिचित होकर काव्यशास्त्रीय तत्त्वों को समझने में सक्षम होंगे। भारतीय दार्शनिक तत्त्वों का सामान्य ज्ञान प्राप्त होगा। दार्शनिक तत्त्वों के प्रति विश्लेषणात्मक एवं तार्किक क्षमता का विकास होगा। व्याकरणशास्त्र के ज्ञान के माध्यम से शुद्ध वाक्य विन्यास कौशल का विकास हो सकेंगे। 		
DEGREE COURSE IN UG		
Programme: <i>Degree Course in Arts- Sanskrit</i>		Year: III
		Semester: V Paper-II
Subject: Sanskrit		
CourseCode: SANCC302	Course Title: उपनिषद्, पुराण एवं स्तोत्रकाव्य	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> उपनिषद् का सामान्य परिचय एवं निहित उपदेशों का अवबोध होगा। पुराणों के परिचय से सांस्कृतिक एवं सामाजिक चेतना से परिचित होंगे। स्तोत्र काव्य के परिचय से कल्याण परक तथ्यों से परिचित होकर आत्मोत्कर्ष की अभिप्रेरणा प्राप्त होगी। स्तोत्र काव्य के रहस्य द्वारा सृष्टि कल्याणार्थ भाव विकसित होंगे। 		

DEGREE COURSE IN UG		
Programme: Degree Course in Arts- Sanskrit		Year: III Semester: V Project
Subject: Sanskrit		
CourseCode: SANRP303	Course Title: संस्कृत साहित्य की विविध विधाओं पर लघु शोध कार्य	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी लघुशोधात्मक अध्ययन एवं कार्य के माध्यम से संस्कृत साहित्य की विविध विधाओं से परिचित होंगे। संस्कृत साहित्य के प्रसार के लिए संस्कृत साहित्य अध्ययन सहायक होगा। विद्यार्थी संस्कृत साहित्य के अध्ययन के माध्यम से शोध कार्य में कुशलता प्राप्त कर सकेंगे। 		
DEGREE COURSE IN UG		
Programme: Degree Course in Arts- Sanskrit		Year: III Semester: VI Paper-I
Subject: Sanskrit		
CourseCode: SANCC304	Course Title: वैदिकवाङ्मय	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> वैदिकवाङ्मय संस्कृत की समृद्ध परम्परा को समझने में पर्याप्त सहायक होगा। वेदोक्त संदेशों एवं मूल्यों के माध्यम से आचरण का उदात्तीकरण होगा। वैदिक सूक्तों के माध्यम से विद्यार्थी को तत्कालीन अध्यात्म, समाज एवं राष्ट्र का दिग्दर्शन होगा। वेदाङ्ग के सम्यक्बोध से सर्वकल्याणार्थ उनका उपयोग करेंगे। 		
DEGREE COURSE IN UG		
Programme: Degree Course in Arts- Sanskrit		Year: III Semester: VI Paper-II
Subject: Sanskrit		
CourseCode: SANCC305	Course Title: धर्मशास्त्र : स्मृतियों एवं अर्थशास्त्र	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> स्मृति साहित्य का सामान्य परिचय प्राप्त कर सकेंगे। मनुस्मृति के माध्यम से भारतीय संस्कृति एवं संस्कार का अवबोध कर सकेंगे। याज्ञवल्क्य स्मृति के अध्ययन से आचार एवं व्यवहार का सम्यक् ज्ञान प्राप्त कर सकेंगे। कौटिलीय अर्थशास्त्र के अध्ययन से राज्यव्यवस्था, कृषि, न्याय एवं राजनीति आदि के मूलभूत सिद्धान्तों का अवबोध कर सकेंगे। 		
DEGREE COURSE IN UG		
Programme: Degree Course in Arts- Sanskrit		Year: III Semester: VI Project
Subject: Sanskrit		
CourseCode: SANRP306	Course Title: वैदिक वाङ्मय पर आधारित लघु शोधकार्य	
Course Outcomes: अधिगम उपलब्धि		
<ol style="list-style-type: none"> विद्यार्थी लघुशोधकार्य के माध्यम से शोधप्रविधि से सुपरिचित होंगे। वैदिक वाङ्मय के विविध ग्रन्थों से परिचित होंगे। वेद, वैदिक संहिता, ब्राह्मण ग्रन्थ, आरण्यक ग्रन्थ, उपनिषद्, वेदाङ्ग एवं वैदिक साहित्य की पृष्ठभूमि में रचित ग्रन्थों से सुपरिचित होंगे। लघुशोधकार्य के पश्चात् बृहदशोधकार्य के प्रति उत्साहित होंगे। शोध सर्वेक्षण के माध्यम से अन्य विषयों में शोधकार्य की सम्भावनाओं से अवगत होंगे। 		

Department of Political Science

{Dr. Satendra Kumar Pandey}

{Mr. Ravindra Lal Shah}

{Mr. Balbir Singh Chauhan}

CERTIFICATE COURSE IN FUNDAMENTALS OF POLITICAL SCIENCE			
Programme: <i>Certificate Course in FUNDAMENTALS OF POLITICAL SCIENCE</i>		Year: I	Semester: I Paper-I
Subject: Political Science			
Course Code: PS101MT	Course Title: Basic Concepts of Political Science		
<p>Course Outcomes: Understanding Politics is integral and indispensable for a comprehensive and critical study of political science. The course is designed to train a student in the foundational issues of political science, which is relevant for any in depth study and research.</p>			

Subject: Political Science			
Course Code: PS101VM	Course Title: Awareness with Civic Rights		Year: I Semester: I
<p>Course Outcomes: This paper intends to provide; the basic digital and legal awareness. The student can leverage this in the job market. To make aware the students of their basic legal rights which would help them to stand up and help others.</p>			

CERTIFICATE COURSE IN FUNDAMENTALS OF POLITICAL SCIENCE			
Programme: <i>Certificate Course in FUNDAMENTALS OF POLITICAL SCIENCE</i>		Year: I	Semester: II Paper-I
Subject: Political Science			
Course Code: PS102MT	Course Title: Comparative Political Systems: Major Constitutions of the World		
<p>Course Outcomes: Politics is the mirror of the society. This paper will help the student in furthering his understanding of the world around. Comparison is widely used method of scientific knowledge This would help to critical analysis.</p>			

DIPLOMA IN POLITICAL THEORY AND PRACTICE			
Programme: <i>Certificate Course in POLITICAL THEORY AND PRACTICE</i>		Year: II	Semester: III Paper-I
Subject: Political Science			
Course Code: PS201MT	Course Title: Foundations of Western Political Thought		
<p>Course Outcomes: This course the ancient and modern political thinking in the West. This would help to understand the idea of state, rights, liberty, equality, and justice which have evolved over a period of time.</p>			

Subject: Political Science			
Course Code: PS202ME	Course Title: Issues of Women Empowerment	Year: II	Semester: III Paper-I
Course Outcomes: Women empowerment in India is required to overcome situations of such types and to provide them with their independent role in Indian society. Empowering women is a necessary right of women. They should have proportional rights to contribute to society, economics, education, and politics.			

<i>Diploma in POLITICAL THEORY AND PRACTICE</i>			
Programme: <i>Diploma in POLITICAL THEORY AND PRACTICE</i>		Year: II	Semester: IV Paper-I
Subject: Political Science			
Course Code: PS202MT	Course Title: Indian Political System		
Course Outcome: Acquaintance to Indian National Movement & Constitution is indispensable for a student to make a sense of Indian Political System. The course is designed to provide an overview of Indian freedom Struggle and key concepts of the Indian constitution to the student, which would evolve him into a conscientious citizen.			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: V Paper-I
Subject: Political Science			
Course Code: PS301MT	Course Title: Major Theories of International Politics		
Course Outcomes: This course seeks to equip students the basic tools for understanding International relations. It also introduces major events and developments that have shaped the contemporary international system. It aims to capture the changing dynamics of the international politics by taking up burning and relevant issues which have potential to alter its contours.			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: V Paper-II
Subject: Political Science			
Course Code: PS302MT	Course Title: Elements of Public Administration		
Course Outcomes: Administration being essential to every organization, this course aims to acquaint a student with fundamentals of public administration too. This would provide him an insight regarding the principles of administration in general and help him to bring out the best from existing set up. This would help him to prepare for administrative examinations too.			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: V
Subject: Political Science			
Course Code: PS301PJ	Course Title: PROJECT WORK (1)		
Course Outcomes: This paper intends to develop a comprehensive insight in the students so that given an opportunity they can initiate a minor research proposal or attempt a minor dissertation on their area of interest			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: VI Paper-I
Subject: Political Science			
Course Code: PS301MT	Course Title: Contemporary Issues in International Politics		
Course Outcomes: This course seeks to equip students the basic tools for understanding International relations. It also introduces major events and developments that have shaped the contemporary international system. It aims to capture the changing dynamics of the international politics by taking up burning and relevant issues which have potential to alter its contours.			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: VI Paper-II
Subject: Political Science			
Course Code: PS304MT	Course Title: Foundations of Indian Political Thought		
Course Outcomes: This course is to familiarize the students with the larger political and social thinking and ideas in Ancient, medieval and Modern India. Designed in a way to help students engage with various ideological dispensations that came to shape the normative thinking on India.			

<i>Bachelor of POLITICAL SCIENCE</i>			
Programme: <i>Bachelor of POLITICAL SCIENCE</i>		Year: III	Semester: VI
Subject: Political Science			
Course Code: PS302PJ	Course Title: PROJECT WORK (2)		
Course Outcomes: This paper intends to develop a comprehensive insight in the students so that given an opportunity they can initiate a minor research proposal or attempt a minor dissertation on their area of interest.			

Department of Sociology

{Dr. Amita Bihan}

B.A. Sociology is a bachelor level course in Sociology with duration of three years. It is a social science, a term with which it is sometimes synonymous, which uses various methods of empirical investigation and critical analysis to develop and refine a body of knowledge about human social activity. A Bachelor degree in Sociology teaches the fundamental concepts related to structure of society, organization of society, and how humans interact within these constructs.

Various types of job opportunities after B.A. Sociology

- Teacher, Home Tutor & Lecturer
- Market Survey Researcher
- Labour Leader & Mediator
- Human Services Assistant
- Community Service Worker
- Training Advisor
- Census workers & Research Assistant

Various Areas for job after B.A. Sociology

- Educational Institutes
- Corporations
- Criminal Justice Field
- Human Services
- Labour Unions
- Prisons
- Radio Stations
- Trade Associations
- Research Organizations

Programme outcomes (POs):	
PO 1	This course will introduce students to key concepts in the discipline of Sociology.
PO2	It will provide them broad knowledge about development of sociological thought.
PO 3	It will give them basic understanding and skill related to social research.
PO 4	It will provide them basic understanding of the Indian society
PO 5	It will also sensitize them about social problems.

<p>Programme specific outcomes (PSOs): <i>UG I Year / Certificate Course in Arts</i></p>	
<ul style="list-style-type: none"> • After completion of the course, the students will be able to understand the key concepts in Sociology. • They would develop keen insights to distinguish between the common-sense knowledge and Sociological knowledge. • They will understand the basic features of the Indian social system and social problems. • They will have basic knowledge and skill related to social research, and also sensitivity about gender issues in society. 	
<p>Programme specific outcomes (PSOs): <i>UG II Year/ (Diploma in Arts)</i></p>	
<ul style="list-style-type: none"> • After doing the programme, the students will develop in-depth understanding of sociological concepts, thoughts. • They will have knowledge about the Traditional Social Institutions of Indian Society in context of continuity and change. • Their sociological knowledge and analytical skills that would enable them to think critically about Indian society and emerging social problems and issues. • They will have the knowledge and skill to conduct social research. 	

<p>Programme specific outcomes (PSOs): <i>UG III Year / Bachelor of Arts</i></p>	
<p>PSO 1</p>	<ul style="list-style-type: none"> • After completing some courses, the students will be able to understand the development of Sociology as a discipline and its basic concepts. • They will have the knowledge of the works of classical sociological thinkers and their contribution in the field of Sociology. This would equip them with theoretical insights to understand social scenario around them and also familiarize them with different perspectives and theories. • They will be able to distinguish between macro-level sociological perspectives, specify the theoretical components of each perspective, and connect each perspective to their historical and contemporary theorists. • They will understand the emergence of intellectual traditions and also its impact upon the society
<p>PSO2</p>	<ul style="list-style-type: none"> • Courses in 'Research Methodology in Sociology', will enable the students to understand social research techniques which are used to investigate social phenomena. • They will have the skills to conduct Social Survey. • They will be familiar with formulation of significant hypothesis, Methods of Data collection and Sampling Techniques. • They will have basic knowledge on Elementary Statistics.

PSO3	<ul style="list-style-type: none"> • Some courses will help the students gain knowledge of field work and project work. • They will also have practical experience about field work and research project. • This empirical learning will help them in becoming good researcher in future.
PSO4	<ul style="list-style-type: none"> • Having done the course on Indian Sociology, the students would understand emergence and development of Sociology as a discipline in India and influence of the growth of Nationalism on the discipline • They would understand the philosophical foundations of Sociology and its application in the study of Indian society. • They would have conceptual clarity and articulate the main debates/arguments within Sociology in India. • They would be able to apply the sociological imagination and sociological concepts and principles to understand the society and also their own life.
PSO5	<ul style="list-style-type: none"> • Paper on Social Change will help the students understand the concept, dynamics and processes related to change in and change of society. • A critical understanding of social change would enable students to come out with suggestions contributing to social cohesion in society.
PSO6	<ul style="list-style-type: none"> • Some papers will help the students to get an in-depth understanding of socio-cultural realities of Indian Society and culture, including the tribal society and industrial scenario.

Programme/Class: Certificate	Year: first	Semester: I
Subject: Sociology		
Course code: UGSOC-CC 101	Course Title: Introductory Sociology	
Credits: 06	Core: Compulsory	
Max. Marks: 100	Passing marks: As per University Rules	

Course Outcome:

This Paper will introduce students to new concept of Sociological discipline. These Concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology. This paper will contribute in enriching the vocabulary and scientific temperament of the students. The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights to distinguish between the common-sense knowledge and Sociological knowledge.

CERTIFICATE COURSE IN UG (Arts)		
Programme: <i>Certificate Course in UG(Arts)</i>		Year: I Semester: I
Subject: Sociology		
Course Code: UGSOC- ME102	Course Title: Industrial Sociology	
Course Outcomes:		
<p>This Paper describes the nature and scope of Industrial Sociology. This Paper Elaborate changing structure of modern Industrial enterprises and principles of organization-Formal and Informal.</p>		

CERTIFICATE COURSE IN UG (Arts)		
Programme: <i>Certificate Course in UG(Arts)</i>		Year: I Semester: II
Subject: Sociology		
Course Code: UGSOC-CC201	Course Title: Indian Social System	
Course Outcomes:		
<ul style="list-style-type: none"> • Students will be able to develop in-depth understanding and get detailed insight into the past and contemporary Indian Society. • Students will be familiarized about the Traditional Social Institutions of Indian Society in context of continuity and change. • The programme seeks to build among students the sociological knowledge and analytical skills that would enable them to think critically about Indian society and emerging social issues. • The ability to formulate effective and convincing written and oral arguments about issues and challenges within Indian Society. 		

CERTIFICATE COURSE IN UG (Arts)		
Programme: <i>Certificate Course in UG(Arts)</i>		Year: I Semester: II
Subject: Sociology		
Course Code: UGSOC- V/SD202	Course Title: Gender Sensitization (Vocational/Skill Development)	
Course Outcomes:		
<ul style="list-style-type: none"> • Sensitize students to issues related to gender and equality among all sexes. • Provide them with the tools and skills to develop and integrate a gendered perspective in work and life. 		

DIPLOMA COURSE IN UG ARTS	
Programme: DIPLOMA COURSE IN UG ARTS	Year: I Semester: III Paper-I
Subject: Sociology	
CourseCode: UGSOC-CC301	Course Title: Indian Social Problems
Course Outcomes:	
<p>The syllabus is designed to introduce students to the emerging social problems, the concept and issues of development in Indian Society. The course intends to focus upon the deviant and delinquent behaviour, issue of corruption and other disorganizational and structural problems of the Indian Society. The end favour of the course is to make learners aware about the social problems and developmental issues in the Indian Society.</p>	

Diploma Course in UG (Arts)	
Programme: . Diploma Course in UG(Arts)	Year: II Semester: III
Subject: Sociology	
CourseCode: UGSOC- ME302	Course Title: Applied Sociology
Course Outcomes:	
<p>The Objective of this Paper is to help students acquire an appreciation of the potential application of the discipline.</p>	

Diploma Course in UG Arts	
Programme: Diploma Course in UG Arts	Year: II Semester: IV
Subject: Sociology	
CourseCode: UGSOC- CC401	Course Title: Social Control
Course Outcomes:	
<ol style="list-style-type: none"> 1.This paper is designed to aware the students about the concept of social control from sociological lens. 2.It will help the students to grasp the concepts like- Social Control, self-control, socializationand maladjustment. 3.Explain the main concepts and propositions of sociological theories of social control. 	

CERTIFICATE COURSE IN UG (Arts)		
Programme: <i>Certificate Course in UG(Arts)</i>		Year: I Semester: IV
Subject: Sociology		
CourseCode: UGSOC- V/SD402	Course Title: Techniques of Social Research	
Course Outcomes: The course 'Techniques of Social Research' aims to enhance the skills of students to understand different techniques of Data collection in Social Sciences. With emphasis on data distribution, Tabulation, analysis and Interpretation of data, it will provide students some basic knowledge regarding diagrammatic and graphic presentation of data. It is structured in a way that it develops a basic understanding about use of elementary statistics in social research.		

Bachelor Degree in UG (Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III Semester: V Paper-I
Subject: Sociology		
CourseCode: UGSOC- CC501	Course Title: Development of Sociological Thought	
Course Outcomes: <ol style="list-style-type: none"> 1. To understand the basic requisites of development of Sociology as a discipline. 2. To analyze the work of classical thinkers and their contribution in the field of Sociology. 3. The knowledge of the thinkers (A. Comte, K.Marx, M.Weber& E. Durkheim) would equip the students with theoretical insights to social scenario around them& would familiarize them with different perspectives and theories. 4. Students can distinguish between macro level sociological perspectives, can specify the theoretical components of each perspective, and connect each perspective to their historical and contemporary theorists 5. To understand the emergence of intellectual traditions and also its effects upon the society. 		

Bachelor Degree in UG(Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III Semester: V Paper-II
Subject: Sociology		
CourseCode: UGSOC- CC502	Course Title: Research Methodology in Sociology	
Course Outcomes: The course of 'Research Methodology in Sociology' is structured in a way that it makes students to understand and use techniques employed by social scientists to investigate social phenomena. This course aims to enhance the skills of students to understand procedure of Social Survey and scientific research. With emphasis on formulation of significant hypothesis, Techniques of Data collection and Sampling Techniques, it will provide students some basic knowledge on Elementary Statistics.		

Bachelor Degree in UG (Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III Semester: V Qualifying Paper
Subject: Sociology		
CourseCode: UGSOC-RP503	Course Title: Research Project/Industrial Training/ Survey	
Course Outcomes:		
<p>The syllabus is designed to introduce students to get them engaged in the field work and project work so that they are equipped with the practical knowledge about the field work and research project. This will be an empirical learning for those who aspire to become future social scientist.</p>		

Bachelor Degree in UG(Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III Semester: VI Paper-I
Subject: Sociology		
CourseCode: UGSOC-CC601	Course Title: Indian Sociological Thought	
Course Outcomes:		
<ol style="list-style-type: none"> 1.To understand emergence and development of sociology as a discipline in India influenced by the growth of Nationalism. 2.To understand the philosophical foundations of Sociology and its application. 3.Elucidate conceptual clarity and articulate the main debates/arguments with regards to Sociology in India. 4. Apply the sociological imagination and sociological concepts and principles to her/his own life. 5. The course, in terms of both high-quality syllabus-content and innovative teaching, learning techniques, matches global standards. Consequently, it adequately trains students to compete in global academia. 		

Bachelor Degree in UG(Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III Semester: VI Paper-II
Subject: Sociology		
CourseCode: UGSOC-CC602	Course Title: Social Change	
Course Outcomes:		
<p>This Paper is designed in a manner, so that students are introduced to the concepts related to Social change and Social Movement. This course will introduce students of the dynamic aspect and dissension tendencies of society. The critical evaluation would enable students to come out with better suggestions, contributing in cohesion of society.</p>		

Bachelor Degree in UG(Arts)		
Programme: Bachelor Degree in UG (Arts)		Year: III
		Semester: VI Paper-II
Subject: Sociology		
CourseCode: UGSOC-RP603	Course Title: Research Project on Contemporary Social Issues	
Course Outcomes:		
<p>This Paper is designed in a manner so that students will get an in-depth understanding of socio-cultural realities of Indian Society and culture.</p>		

Department of History

{Mr. Dhanesh Uniyal}

Subject prerequisites:

1. Open For All. To study this course, a student must have qualified 10+2. Admission to the campus shall be guided by the norms specified by the university.

COURSE INTRODUCTION

History is the study of change over time. It covers all aspect of human society. History deals with all aspects of human past e.g. political, social, economic, scientific, technological, medical, culture, intellectual, religious, military etc. History involves the analysis and interpretation of the human past thereby enabling us to study continuity and changes that are taking place over a time. It is an act of both investigation and imagination that seeks to explain how people changed over time. Historians use all forms of evidence to examine, interpret, revisit and reinterpret the past. These include not just written documents, but also oral communication and objects such as buildings, artifacts, photographs and paintings. Historians are trained in the method of discovering and evaluating these sources and the challenging task of making historical sense out of them. Historical discourse gives an understanding of the past which enables us to appreciate our present and shape our future. Besides, history provides background information for other disciplines of social science and humanities.

Programme Outcomes (POs):

PO 1	Knowledge: The students develop a scientific understanding of the past which enables them to understand the history of India as well as the history of the world.
PO 2	Problem Analysis: The students develop a logical understanding of the past which enable them to make sense of the current societal problems in their historical context. The students gather intimate knowledge of the genesis and evolution of the social, economic, cultural and political formations of human past.
PO 3	Historical Research: Use historical research methods to generate knowledge about the various and diversified issues relating to the past.
PO 4	Conservation and Preservation: Conservation and preservation of art, culture and heritage of the Himalayan region. The department has Himalayan Museum since 1987, which has specifically been devoted to display, conserve and preserve the artefacts of the Himalayan region.
PO 5	Modern methods usage: Select and apply appropriate methods, techniques, resources and modern IT tools for generation and dissemination of historical knowledge.
PO 6	History and society: Apply reasoning informed by the contextual knowledge of human past to assess current state of society, economy, environmental, cultural, and political and other related issues.
PO 7	Career Prospects: Enable them in understanding significance of the subject for various competitive examinations.
PO 8	Individual and team work: Function effectively as an individual

PO 9	Communication: Communicate the outcome of the historical research through writings
PO 10	Life-long learning: Recognize the need for and have the capability of critically evaluating and analysing the past for a better understanding of human past.

BA First Year

Certificate in Arts

Programme Specific Outcomes (PSOs)

UG I Year / Certificate in Arts

At the end of the program following outcomes are expected from the students:

- Students will have the ability to apply historical methods to evaluate critically the past and how historians and others have interpreted it.
- Students will be able to acquire basic historical research skills, including the effective use of Libraries, Archives and data bases.
- Students will be able to organize and express their thoughts clearly and coherently both orally and in writing.
- Students will be able to demonstrate broad knowledge of historical events and historical periods and their significance.
- Students will be able to recognize how different individuals, groups, organizations, societies, cultures, countries and nations have affected history. History gave the students wisdom and foresight for the future.
- They can develop capabilities to start earning by using their skill in the field of historical and traditional knowledge system, Tourism, Archives and Museums.

BA Second Year

Diploma in Arts

Programme Specific Outcomes (PSOs)

UG II Year/ (Diploma in Arts)

- Prepares students to become historian, museum curator, archaeologist, etc. and to pursue higher education in the field of history.
- Prepares scholars who will identify and conceptualize significant research problems in the history discipline, can do comparative study of different time periods and are qualified to undertake relevant research and contribute new knowledge to the field.
- They can become independent entrepreneurs or become employed.

Program Specific Outcomes (PSOs) <i>UG III Year (Bachelor of Arts)</i>	
PSO 1	After the completion of B.A., history scholars will be able to distinguish between primary and secondary sources and identify and evaluate evidence.
PSO2	Students will demonstrate in discussion and written work their understanding of different people and cultures in past environments and of how those cultures changed over the centuries.
PSO3	The study of history will give them the ability to compare and contrast different processes, modes of thoughts and modes of expression from different historical time periods and in different geographical areas

BA Final Year

Bachelor of Arts

Programme Specific Outcomes (PSOs)
UG III Year/ (Bachelor of Arts)

- Students will be able to formulate basis of modern India and world history through different concepts like modernity, Rule of law etc.
- Students will be able to analyze the process of rise of modern India and its foundation made by social reforms and freedom fighters.
- Students will be able to categorize different school of thoughts about modern Indian history.
- Students will be able to illustrate rise and growth of Economic Nationalism in India.
- Students have understood the process of colonialism in different part of the world.
- Students have understood the problems of contemporary world in the light of its background history.
- Students will understand the necessity of Universal brotherhood.
- After this degree programme students can be benefitted in getting job like government sector, working with NGOs, Jobs as a Journalist, Tourist manager and in the field of education. They can also start their own entrepreneurship as well.

Programme Specific Outcomes (PSOs)
UG III Year (Bachelor of Arts)

PSO 1	After the completion of B.A., history scholars will be able to distinguish between primary and secondary sources and identify and evaluate evidence.
--------------	--

PSO2	Students will demonstrate in discussion and written work their understanding of different people and cultures in past environments and of how those cultures changed over the centuries.
PSO3	The study of history will give them the ability to compare and contrast different processes, modes of thoughts and modes of expression from different historical time periods and in different geographical areas

PSO4	They will be able to produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past.
PSO5	Students will offer multi-causal explanation of major historical developments based on a contextualized analysis of interrelated political, social, economic, culture and intellectual process.
PSO6	Students will be able to write an original research paper that locates and synthesizes relevant primary and secondary sources and has a clear coherent and plausible argument, logical structure, proper references.
PSO7	Students will present orally their research or a summary of another's research in an organized coherent and compelling fashion.

Certificate in Arts			
Programme:	<i>Certificate in Arts</i>	Year: I	Semester : I Paper-I
Subject: History			
Course Code: H101MT	Course Title: History of India from the Earliest Times up to 300 AD		
Course Outcomes: The present course will be useful in providing a comprehensive understanding to the evaluation of early Indian society and the student will be able to identify the forces and factors that shaped the course of early Indian history. The students will develop a critical awareness of various categories of sources for the study of ancient Indian history. They will learn the analytical skills to explore the development of India's religious systems and cultural accomplishments in historical perspective. They will be able to explore the connections between multiple causative factors and assess their relative historical significance. They will understand the process of the rise and decline of imperial states in early India.			

Programme:	<i>Certificate in Arts</i>	Year: I	Semester:II Paper-I
Subject: History			
Course Code: H102MT	Course Title: History of India from 300 AD to 1200 AD		
Course Outcomes: This paper is designed to develop the understanding of the process of transition from ancient period to the early medieval period and figure out the key determinations that made this transition possible. It will develop an understanding of the growing culture and political and economic linkages between North and South Indian. The student will also get familiarized with the development of historical processes in Deccan and far south.			
Programme:	<i>Diploma in Arts</i>	Year: II	Semester: III Paper-I
Subject: History			
Course Code: H203MT	Course Title: History of India from 1200 AD to 1526 AD		
Course Outcomes: This paper is designed to develop the understanding of historical processes in India during the period under study. This paper covers the development in the field of art, language, culture and religious during medieval period. The student will be able to understand the territorial expansion of various Indian kings and impact of Medievalism on Indian Society and Culture.			
Programme:	<i>Diploma in Arts</i>	Year: II	Semester: IV Paper-I

Subject: History	
Course Code: H204MT	Course Title: History of India from 1526 AD to 1756 AD
Course Outcomes:	
<p>This paper is designed to provide the students with a firm basis for the understanding of the period 1526-1707. By discussing the nature of the social, political and religious foundations of Mughal India as a dynamic process, the student will acquire multifaceted understanding of the factor that shaped state and society in the Mughal period and that were carried into the later colonial state.</p>	

Bachelor of Arts			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: V Paper-I
Subject: History			
Course Code: H305MT	Course Title: History of India from 1757AD to 1857AD		
Course Outcomes:			
<p>The students will be able to trace the British Colonial expansion in the political contexts of mid eighteenth to mid nineteenth century India. They will learn about the changes in society, politics, religious and economy during this period. They will also acquire knowledge about the transition of India into a colonized society and economy.</p>			
Bachelor of Arts			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: V Paper-II
Subject: History			
Course Code: H306MT	Course Title: History of Modern World 1453AD 1815AD		
Course Outcomes:			
<p>This paper is designed to develop an understanding of renaissance and point out the factors for the growth of renaissance. It explains the changes in human thoughts and behavior due to renaissance. The student will be able to learn the rise of reformation movement against the Roman Catholic and how reformation impact globally. It will enable the students to compose an effective narration that analyses the history of western world. They will be able to evaluate the ways in which the history of the early western civilization in forms the current political, cultural and social history of Europe after 15 century and its relationship to the global culture.</p>			
Bachelor of Arts			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: V Project- I
Subject: History			

Course Code:H307P	Course Title: Study of Languages used in Indian history		
<p>Course Outcomes: Student has to prepare research report on any language of Historical importance of his/her interest to consultation with Supervisor. Supervisor will teach following to their students for enabling students to prepare research report.</p> <ul style="list-style-type: none"> • Students will be able to the linguistic diversity of textual sources of Indian History • In-depth knowledge of Languages used in Indian- History. • The variation among Historical aspect of different languages. • Interaction with people with different languages and cultural settings. • Study of Historical area of different languages being visited. • Learn to prepare language analysis report. 			
Bachelor of Arts			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: VI Paper-I
Subject: History			
Course Code:H308MT	Course Title: History of India from 1858AD to 1950AD		
<p>Course Outcomes:</p> <p>This paper is designed to develop an understanding of historical developments in India during the colonial rule. Understanding of the process of domination and resistance in this phase of colonial era shall enhance the student's awareness about modern India. By studying various strands of freedom movement student will be able to appreciate this phase of Indian past.</p>			
Bachelor of Arts			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: VI Paper-II
Subject: History			
Course Code: H309MT	Course Title: History of Modern World 1815AD 1945AD		
<p>Course Outcomes:</p> <p>This Course will impart knowledge to the students regarding the political transformations of the modern world that took place from the 18th century till the end of 1945. The students will be able to know about the political history of the world since the end of the first world war focusing on the change and continuity over time and space. The course will impart knowledge on the economic developments of the period in an analytic way.</p>			
Programme:	<i>Bachelor of Arts</i>	Year: III	Semester: VI Project II
Subject: History			
Course Code: H310P	Course Title: Research Methodology in History		

Course Outcomes

The aim of the course is to provide students with an introduction to research methods and report writing. Upon successful completion of the course, you are expected to develop understanding on various kinds of research, objectives of doing research, research process, and research designs. Have basic knowledge on qualitative research techniques.

Department of Home Science

{Ms. Mayani Chaodhary}

Program Outcomes

- All programmes offer various relevant skill oriented courses.
- The course focuses on skill development, innovation and capacity building.
- Courses aim at making the students self-reliant with necessary proficiencies for a wide variety of career with entrepreneurial skills and placement.
- Specialized courses are in sync with industry-academic needs, national & global issues and challenges.
- Practical training/exposure through internship, field visit, project work, expert lectures, demonstration, workshops and seminars gives hands-on experience to students.
- Students are sensitized towards challenges and solutions for societal development from grass-root level, i.e., home.
- Continuous innovations evolved through scientific researches in post graduate programs empower women and family with solutions to deal with everyday challenges.

Program specific outcomes/ Career Opportunities

Clothing and Textiles

- Textile & Costume designer
- Quality assessment managers
- Fashion Merchandisers
- Fashion illustrators
- Retail branch managers
- Production assistants
- Academicians Highlights
- High demand and Job oriented courses
- Specialized and well qualified staff
- Good networking with apparel and textile industry
- Practical exposure through workshops & industrial trips
- Practical training through internships in renowned industries
- Designing of apparels, home décor articles, accessories using various art forms
- Publications and presentations of papers at national & international conference by the faculty and students
- Research Areas
- Sustainable Fashion
- Eco-friendly dyeing and printing techniques
- Extraction of natural dyes from plant waste
- Quality control in Apparel and Textiles

- Entrepreneurship by NGOs

Foods and Nutrition

- Private and Government Hospitals
- Private Clinic
- Health and Fitness Centers
- NGOs: Regional, National and International
- Counselors in Schools
- Teaching profile in Schools and Colleges
- Entrepreneurial Ventures
- Hospitality and Tourism Industry
- MNCs
- Government Programs(ICDS,MDM etc)
- Government Agencies(NIPCCD)
- Catering Management Industry
- Food Industry
- Research and Academics

Family Resource Management

- Interior Designer
- Landscape Designer- Green Building Consultant
- Color Consultants
- Event Organizers
- AutoCAD designers
- Product Developers
- Furniture Designers
- Interior Furnishing Experts
- Kitchen planners and designers
- Hotel industry
- Tourism industry
- Academicians

Human Development/Human Development and Family Relations

- Govt./private agencies/ NGOs working with young children, adolescents, women and elderly, social welfare, education and human development

- Social work
- Crèche/Day Care Centers
- Counselors in schools, higher educational institutes and hospitals
- Special educators in schools and colleges
- Family life educators
- In higher education as Academicians, Research Associates and Researchers
- Elementary and Secondary Education
- International and national agencies like WHO, UNICEF, NIPCCD, ICCW, ICMR etc.
- Entrepreneurial Ventures
- Academicians

B.A. I

B.A. I Semester I Home Science Food and Nutrition (Theory)

Programme/Class: Certificate	Year: I	Semester: I
Subject: Home Science		
Course Code: HSC/UG001 Major/Core	Course Title: Food and Nutrition (Theory)	
<p>Course Outcomes:</p> <p>The student at the completion of the course will be able to:</p> <ul style="list-style-type: none"> ● Gain Knowledge of Nutrition. ● Students will get familiar with different methods of cooking ● Acquaint students with practical knowledge of nutrient rich foods. 		

B.A. I Semester I Home Science
Cooking skills and Healthy Recipe Development (Practical)

Programme/Class: Certificate	Year: 1	Semester:1
Subject: Home Science		
Course Code: HSC/UG002	Course Title: Cooking skills and healthy recipe development(Practical)	
Course Outcomes:		
<ul style="list-style-type: none"> ● Students will get familiar with different methods of cooking ● Acquaint students with practical knowledge of nutrient rich foods 		

B.A. I

B.A. I Semester I Home Science
Human Development (Theory)

Programme/Class: Certificate	Year: 1	Semester:1
Subject: Home Science		
Course Code: HSC/UG Minor/Elective	Course Title: Human Development (Theory)	
Course Outcomes:		
<p>The student at the completion of the course will be able to:</p> <ul style="list-style-type: none"> ● Explain the need and importance of studying human growth and development across lifespan ● Identify the biological and environmental factors affecting human development ● Learn about the characteristics, needs and developmental tasks of infancy & early childhood years 		

B.A. I

B.A. I Semester I Home Science Food Processing and Preservation (Theory)

Programme/Class: Certificate	Year: 1	Semester: 1
---------------------------------	---------	-------------

Subject: Home Science

Course Code: HSC/UG Vocational/Minor	Course Title: Food Processing and Preservation(Theory)
---	---

Course Outcomes:

The student at the completion of the course will be able to:

- Students will get familiar with various methods of Food Processing and Food Preservation.
- Development of the skill of preparation of various food items like jams,jellies and pickles.

B.A. I Semester 2 Home Science Introduction to Clothing & Textiles (Theory)

Programme/Class: Certificate	Year: 1	Semester: 2
------------------------------	---------	-------------

Subject: Home Science

Course Code: HSC/UG003 Major/Core	Course Title: Introduction to Clothing & Textiles (Theory)
--------------------------------------	--

Course Outcomes:

- Learn about the scope of textile and clothing
- Understanding why fabrics are different
- Learn how fabrics can be manufactured
- Understand basic clothing concepts and garment making

**B.A. I Semester 2 Home Science
Clothing & Textiles (Practical)**

Programme/Class: Certificate	Year: 1	Semester: 2
Subject: Home Science		
Course Code: HSC/UG004	Course Title: Clothing & Textiles (Practical)	
Course Outcomes: <ul style="list-style-type: none"> • Ability to identify fibers and fabrics • Understanding why fabrics are different • Learning basic sewing skills • Learn how garments are stitched 		

B.A. I

**B.A. I Semester II Home Science
Resource Management (Theory)**

Programme/Class: Certificate	Year: 1	Semester: II
Subject: Home Science		
Course Code: HSC/UG Minor/Elective	Course Title: Resource Management (Theory)	

Course Outcomes:

The student at the completion of the course will be able to:

- Learn the family resource management as a whole
- Understand the Decision making and use of resources throughout the Family life cycle.
- Gain knowledge about Time, Money & Energy as a Resource.
- Appreciate Household Equipment's for work simplification

B.A. I

B.A. I Semester II Home Science Women Empowerment (Theory)

Programme /Class: Certificate	Year: I	Semester: II
Subject: Home Science		
Course Code: HSC UG Vocational/Minor	Course Title: Women Empowerment (Theory)	

Course Outcomes:

The student at the completion of the course will be able to:

- To develop insight into the general issues of women.
- To understand strategies for the empowerment of women.

Department of Geography

{Ms. Anuja Rawat}
{Dr. Bharat Singh Rana}
{Dr. Abdul Wahab}

Subject prerequisites:

Subject is open to all have passed 10+2 level in any stream

But, preference shall be given:

1. To study Geography, a student had the subject Geography learnt at 10+2 level.
2. Anyone who has mathematics, physics, biology as base subjects at 10+2 level.
3. Keen interest in Earth and its physical and social environment and maps.
4. Computer and drawing skills.
5. Creativity, sound observation and analytical aptitude while working on scientific procedures and research.

COURSE INTRODUCTION

Geography helps us to have an awareness of a place. All places and spaces have a history behind them, shaped by humans, earth, and climate. It also helps students with spatial awareness on the globe. Understanding direction and where things are in the world is still a vital skill, despite having easy access to this information online. **Physical Geography:** includes the study of the physical composition of a land which includes climate, landforms, soil and growth, bodies of waters, and natural resources. **Human Geography:** on the other hand, includes the study of people and culture and how they are distributed across the globe and are more likely to participate in the global community. Geography helps to develop factual reading skills — not only in the studying of maps, but also in the reading materials that are associated with geography. Geography often involves first-hand accounts, reading of research studies, and analysis of data sets. Geography puts history in context.

It helps us see the why, when, and how of what happened in history. One can learn History better by learning Geography.

Globalization is the process of cultures travelling globally and having an effect on others. Studying geography helps to understand where globalization might lead. Studying geography will make you better understand current events. Studying geography can enhance your navigation skills, no matter where you are. Studying geography will help you make sense of and appreciate different cultures around the globe. Learning about land, resource availability, and how that has shaped a culture to be the way it is today helps you understand the uniqueness of a culture. The study of geography helps us to understand relationships between cultures. Ultimately, this leads to a more accepting and culturally aware society.

Those who study geography have a unique outlook — one that comes with the knowledge of many cultures and spatial awareness that is not replicated in other disciplines. This mix of knowledge can help geographers come up with significant and unique solutions that others may not be able to see. Another way geography can have a positive influence in the world is by creating awareness of the effect of climate change. Geographers have intimate knowledge of weather patterns and climate changes throughout the course of history on areas of land. They also have studied how those changes have affected humans in those areas. That knowledge is shared with others to hopefully bring an understanding and global awareness of the effects of climate change on human society. Geography will help you better understand news, help fight climate change, be a part of a global community, understand cultures, and learn history. At the end of the day, geography will help to become a better overall global citizen.

Programme outcomes (POs):

(After 3 Years of Study in Geography Under Graduate Programme)

PO 1	This course will provide students, the basic concepts of Physical & Human Geography.
PO2	It will help in developing analytical and critical thinking based on the themes and issues of Geography.
PO 3	Students will be able to analyze the problems of present physical as well as cultural world and they will try to find out the possible measures to solve those problems.
PO 4	Students will be able to understand applied and interdisciplinary aspects of Geography.
PO 5	Students will be able to design and conduct research projects in geography.
PO 6	Students will learn how to use various surveying instruments in the field.
PO 7	Students will be equipped with various statistical techniques and their uses.
PO 8	Students will learn how to prepare maps based on toposheets as well as GIS.

PO 9	Students will be able find out an original research question appropriate for geographic analysis.
PO10	Students will be able to design and implement legitimate geographic methodology.
PO 11	As a student of Geography, they will be capable to develop their observation power through field experience and to identify the socio-environmental problems of the areas and regions.
PO 12	Students will prepare themselves for professional careers in Geography.
PO 13	As a spatial science subject will train students to employ in the sectors of geospatial analysis, regional planning and development, tourism, mapping and surveying etc.
PO 14	Through this course students will be able to prepare themselves for Post Graduate and further Ph.D. programs in Geography.
PO 15	Students will be able to relate and use geographical knowledge and its practical aspects in their realistic life.

Programme specific outcomes (PSOs):
UG I Year / Certificate course Arts/Science

1. Student will gain the knowledge of Physical Geography. Student will have a general understanding about the geomorphological and geotechnical process and formation. They will be able to correlate the knowledge of physical geography with the human geography.
2. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change and dynamics; soil formation and classification; hydrological and oceanographic studies etc.
3. Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-vis other social and earth sciences.
4. They will be able to acquire the knowledge of Human Geography and will correlate it with their practical life.
5. Student will be able to analyse the problems of physical as well as cultural environments of both rural and urban areas. Moreover they will try to find out the possible measures to solve those problems.
6. Students will be able to learn various Field Survey Techniques with diverse Survey Instruments.
7. Students will be able to learn the application of various modern instruments (GPS) and by these they will be able to collect primary data.
8. Applied geomorphologists working independently or serving on multidisciplinary advisory panels are well positioned to influence public policy to the benefit of society and the earth sciences.

Programme specific outcomes (PSOs):
UG II Year/ (Diploma in Arts/Science)

1. Student will have a general understanding about the Tourism Geography of any region. They will be able to correlate the knowledge of Tourism Geography with the Regional Development and Planning.
2. Students will be able analyze the prospects and potential of tourism in Uttarakhand State. Moreover they will try to find out the possible contribution of tourism development in regional development and planning.
3. Expertise in Statistical Techniques will be useful in quantitative assessment of the geographical data. The students can be able to justify their research outcomes which will ultimately contribute to the proper formulation of developmental plans.
4. The earth is three dimensional, and it is a challenge to show information in 3D to communicate with others. The map projection techniques will be helpful to put the earth on the flat surface which makes it easier for all to understand. The map projection techniques: the students will be able to map and communicate the geographical information of any region and any plans they have for solving problems that arise.

Programme specific outcomes (PSOs):
UG III Year / Bachelor of Arts/Science

PSO 1	Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography. Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.
PSO 2	Understanding the role and functioning of global economies, industrial locations; and the use and exploitation of resources with impacts.
PSO 3	Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism, idealism etc.
PSO 4	Students correlate activity of agriculture and its determinants, Classify various types of agriculture in the world and differentiate, Discuss the problems and prospects of agriculture, Acquire new methods, techniques and trends used in agriculture, Understand the concept of sustainable agricultural development.
PSO 5	Conduct Social Survey Project: They will be eligible for conducting social survey project which is needed for measuring the status of development of a particular group or section of the society
PSO6	Training in practical techniques of mapping, cartography, softwares, interpretation of maps, photographs and images etc; so as to understand the spatial variation of phenomena on the Earth's surface.

PSO7	Students will learn how to prepare map based on GIS by using the modern geographical map making techniques.
PSO8	Development of Observation Power: As a student of Geography Course they will be capable to develop their observation power through field experience and in future they will be able to identify the socio-environmental problems of a locality.
PSO9	After the completion of the project they will be efficient in their communication skill as well as power of social interaction. Some of the students are being able to understand and write effective reports and design credentials, make effective demonstrations, and give and receive clear instructions.
PSO 10	Demonstrate knowledge and understanding of the management principles and apply these to their own work, as a member and leader in a team, to manage projects. They will perform effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PSO 11	Employment Opportunities: Many geography grads go into urban and regional planning, a field that is growing fast. Other geographers work in environmental management and consultation and can have a direct impact in the fight against climate change. Also, the skills learned during a geography degree, such as cartography, data representation, and research writing, transfer well into the workforce and can make you a standout applicant.
PSO12	Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of Uttarakhand by studying and discussing contemporary concepts of social and cultural geography. Explaining and analyzing the regional diversity of Uttarakhand through interpretation of Physical regions.

CERTIFICATE COURSE IN ARTS/SCIENCE		
Programme: Certificate Course in Arts/Science	Year: I	Semester: I Paper-I
Subject: Geography		
Course Code: GEOG101T	Course Title: Physical Geography	
Course Outcomes:		
<ol style="list-style-type: none"> 1. Understand the origin of Universe, Earth and Solar system. 2. Learn about the Continents and Oceans. 3. Plate tectonics and related movements. 4. Origin and development of different Landforms on the Earth. 5. Earth's climate and factors influencing it. 6. Understand formation of Soil, types, profiles and biogeography. 7. Ocean systems of the world. 		

CERTIFICATE COURSE IN ARTS/SCIENCE		
Programme: <i>Certificate Course in Arts/Science</i>	Year: I	Semester: I Paper-II
Subject: Geography		
Course Code: GEOG102P	Course Title: Basic Cartographic Techniques and Map Readings	
Course Outcomes:		
<ol style="list-style-type: none"> 1. Learn basics of Cartography and Map making. 2. Understand and interpret toposheets and weather maps. 3. Draw maps with the help of toposheets. 4. Learn function and use of meteorological instruments. 		

CERTIFICATE COURSE IN ARTS/ SCIENCE		
Programme: <i>Certificate Course in Arts/Science</i>	Year: I	Semester: II Paper-I
Subject: Geography		
Course Code: GEOG201T	Course Title: Human Geography	

Course Outcomes:
<ol style="list-style-type: none"> 1. Learn Meaning, Concept, Nature, Scope and development of Human Geography. 2. Understand Cultural Changes in and around the world. 3. Learn about the different races, religions, tribes, their culture and cultural development.

CERTIFICATE COURSE IN ARTS/SCIENCE		
Programme: <i>Certificate Course in Arts/Science</i>	Year: I	Semester: II Paper-II
Subject: Geography		
Course Code: GEOG202P	Course Title: Surveying Techniques	
Course Outcomes:		
<ol style="list-style-type: none"> 1. Understand importance of Surveying. 2. Learn to use Different Surveying instruments including GPS. 		

Subject: Geography

Course Code: GEOG301T | **Course Title: Tourism Geography**

Course Outcomes:

1. Understand the concept and importance of tourism and tourism Geography.
2. Infrastructure required by the tourism services.
3. Learn impacts on Environment, economy and society.
4. Tourism prospects and challenges in Uttarakhand.

DIPLOMA IN ARTS/SCIENCE

Programme: Diploma in Arts/Science

Year: II

**Semester: III
Paper-II**

Subject: Geography

Course Code: GEOG302P | **Course Title: Thematic Cartography**

Course Outcomes:

1. Learn theme-based cartography.
2. Able to represent geographical data of different types using diagrams, graphs and maps.

DIPLOMA IN ARTS/SCIENCE

Programme: Diploma in Arts/Science

Year: II

**Semester: IV
Paper-I**

Subject: Geography

Course Code: GEOG401T | **Course Title: Regional Planning and Development**

Course Outcomes:

1. Understand the concept of region, planning and development
2. Understand the importance of Regional planning.
3. Learn the process and strategies of planning.
4. Understand the theories of regional planning.
5. Problems of planning and causes of regional disparities.

DIPLOMA IN ARTS/SCIENCE		
Programme: <i>Diploma in Arts/Science</i>	Year: II	Semester: IV Paper-II
Subject: Geography		
Course Code: GEOG402P	Course Title: Quantitative Techniques and Map Projections	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand the importance of statistical methods in Geographical studies. 2. Learn data collection, tabulation, analysis and prediction. 3. Understand the need of projection and construction methods. 		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: V Paper-I
Subject: Geography		
Course Code: GEOG501T	Course Title: Geography of India	
Course Outcomes: <ol style="list-style-type: none"> 1. Help students to know the Uniqueness of India in the world. 2. Learn about the physical and cultural diversities and interrelationships of India. 3. Understand the agricultural, industrial and trade aspects of India. 		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: V Paper-II
Subject: Geography		
Course Code: GEOG502T	Course Title: Economic Geography	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand broad meaning and scope of Economic Geography. 2. Understand Economic landscape. 3. Learn world production of crops, industries, resources, and petroleum etc. 4. Learn theories of industrial location and factor responsible. 5. Understand trade and transportation scenario of the world. 		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: V Paper-III
Subject: Geography		
Course Code: GEOG503P	Course Title: Field Excursion	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand different physio-cultural settings of the visited region or area. 2. Understand the geographical differences among regions and areas and their causes. 3. Learn to interact with peoples of different culture. 4. Learn to Prepare tour report 		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: V Paper-IV
Subject: Geography		
Course Code: GEOG504R	Course Title: Survey/ Research Project -I	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand the importance of research and research methodology. 2. Learn how to conduct research project. 3. Learn to prepare project report. 		
(Core Compulsory for preparation of field survey)		(Core Compulsory)

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: VI Paper-I
Subject: Geography		
Course Code: GEOG601T	Course Title: Evolution of Geographical Thoughts	

Course Outcomes: <ol style="list-style-type: none"> 1. Understand the development of Geography as a scientific discipline. 2. Learn the basic concepts of Geography. 3. Know the impact of expedition, discoveries and exploration on Geographical knowledge. 4. Contributions of Indian, Arab, Greek, Roman, and modern geographers.
--

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: VI Paper-II
Subject: Geography		
Course Code: GEOG602T	Course Title: Agricultural Geography	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand the meaning, scope and approaches of Agricultural Geography. 2. Learn factors influencing Agriculture. 3. Learn techniques and methods of agricultural regionalization. 4. Come to know the agricultural location theory. 5. Understand the agricultural scenario of India. 		
Core Compulsory		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: VI Paper-III
Subject: Geography		
Course Code: GEOG603P	Course Title: Basics of Remote Sensing and GIS	
Course Outcomes: <ol style="list-style-type: none"> 1. Understand the meaning and importance of Remote Sensing and GIS. 2. Learn to map making by using RS and GIS. 		
Core Compulsory		

DEGREE IN ARTS/SCIENCE		
Programme: <i>Degree in Arts/Science</i>	Year: III	Semester: VI Paper-IV
Subject: Geography		
Course Code: GEOG604R	Course Title: Survey/ Research Project-2	
Course Outcomes: <ol style="list-style-type: none"> 1. Implementation of Research Methodology. 2. Field Survey and Data collection and Data Analysis. 3. Report Writing. 		
Core Compulsory		

Department of Economics

{Mr. Ajeet Singh Rana}

COURSE INTRODUCTION

The Course is designed for the students to pursue graduation with Economics in regular mode. The programme aims to inculcate economic thinking in students and help them in economic decision making. It aims to develop analytical view point in the students about the economic behavior of the people. The objective is to nurture the students as socially responsible and ethically aware citizens. The under graduate programme will have 10 courses in 6 Semesters in 3 years. Keeping in the spirit of the New Education Policy 2020 to introduce research at the graduation level **Field Survey** in Fifth Semester & **Research Project** in Sixth Semester is introduced in this course.

Programme Outcomes (Pos) :	
PO 1	Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development.

Programme Specific Outcomes (PSOs) : UG I Year / Certificate Course in Fundamentals of Economics	
PSO1	To understand the basic concepts of Microeconomics
PSO2	To understand the basic concepts of Macroeconomics

Programme Specific Outcomes (PSOs) : UG II Year / Diploma in Economics	
PSO1	To understand the basic concepts of Public Revenue, Public Debt, Public Expenditure etc.
PSO2	To understand the basic concepts of Money, Banking & International Trade.
PSO3	To understand different monetary standards, central banking system etc.

Programme Specific Outcomes (PSOs) : UG III Year / Bachelor of Economics	
PSO 1	To understand the basic concept of Indian Economy.
PSO2	To understand the concept of Basic Labour Economics
PSO3	To understand the basics of Agricultural Economics.
PSO4	To understand the basics of Demography.
PSO5	To understand the basic concept of Quantitative Techniques that are used in economic analysis.
PSO6	To understand the basic concepts of Theory of Economic Growth & development.
PSO7	To understand about the Economic thinkers and their economic thoughts.
PSO8	To understand the basic concepts of Industrial Economy.
PSO9	To Understand the Economy of Uttarakhand.
PSO10	To understand the basic Computer Application in Economics.

Certificate Course in Fundamentals of Economics		
Programme : Certificate Course in Fundamentals of Economics	Year 1	Semester 1 Paper I
Subject : Economics		
Course Code : ECOMJ101	Course Title : Basics of Microeconomics	
Course Outcomes: The course will help in:		
<ul style="list-style-type: none"> • Study of micro economics enables the students to have an understanding of theoretical aspects of the subject. • Students are able to understand and define the basic concepts like consumer behavior, production, demand and supply etc. • Students will learn about the price and output determination of the firm and industry under different market forms. They also learn about the Welfare concept in modern Economics. 		

Certificate Course in Fundamentals of Economics		
Programme : Certificate Course in Fundamentals of Economics	Year 1	Semester 2 Paper I
Subject : Economics		
Course Code : ECOMJ201	Course Title : Basics of Macroeconomics	
Course Outcomes:		
<ul style="list-style-type: none"> • Students learn about macroeconomics and different theories regarding the determination of income and employment by different economists. • They learn about the consumption and investment functions. And also, about the functioning of multiplier process. • Students learn about money and banking and become able to know about the theories of inflation and Unemployment etc. 		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 5 Paper II(a)
Subject : Economics		
Course Code : ECOMJE501	Course Title : Basics of Labour Economics	
Course Outcomes :		
<ol style="list-style-type: none"> 1. The students will learn the importance of labour economics. 2. The students will get familiar with characteristics of Industrial labour. 3. The students will come to know about labour legislation and labour unions. 4. The students will learn Social Security and Labour Welfare measures for labours. 		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 5 Paper II(c)
Subject : Economics		
Course Code: ECOMJE503	Course Title: Basics of Demography	
Course Outcomes:		
<ol style="list-style-type: none"> 1. The students will come to know population growth and economic development. 2. The students will come to know about migration and its features. 3. The students will be able to understand the concept of demographical development of India, 		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 5 Paper II(d)
Subject: Economics		
Course Code: ECOMJE504	Course Title: Basic Quantitative Techniques in Economics	
Course Outcomes:		
<ol style="list-style-type: none"> 1. Students will be able to understand the Basic concept of Mathematical Economics 2. Students will be able to use the mathematical tools and methods in Economics 		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 6 Paper I
Subject : Economics		
Course Code : ECOMJ601	Course Title : Economic Growth & Development	
Course Outcomes :		
<ol style="list-style-type: none"> 1. The students will be able to understand the development theories along with the conceptual issues in growth and development. 2. The students will be able to understand the concept of demographical development of India, its demographic features and HDI. 		

Bachelor in Economics		
Programme :Bachelor in Economics	Year 3	Semester 6 Paper II(a)
Subject : Economics		
Course Code: ECOMJE601	Course Title : History of Economic Thought	
Course Outcomes:		
<ol style="list-style-type: none"> 1. The students will come to know the thoughts of Mercantilism and Physiocracy. 2. The students will come to know about Classical period thinkers in economics. 3. The students will know about Nationalist & Welfare Economists. 		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 6 Paper II(b)
Subject : Economics		
Course Code : ECOMJE602	Course Title : Basics of Industrial Economics	
Course Outcomes :		
1. The students will come to know about Industrial Process, growth of Firm and Process of Innovation.		
2. The students will study rationalism and effects of globalization on industry.		

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 6 Paper II(c)
Subject : Economics		
Course Code : ECOMJE603	Course Title : Economy of Uttarakhand	
Course Outcomes :		
1. The course introduces about the economy of Uttarakhand and demographic profile of Uttarakhand.		
2. The student will learn agriculture and industrial profile of Uttarakhand economy.		
3. The student will come to know about various poverty alleviation programmes in Uttarakhand.		
4. The students will come to know about various employment generation programmes in Uttarakhand.		
		Core Compulsory
		Mark: 25

Bachelor in Economics		
Programme : Bachelor in Economics	Year 3	Semester 6 Paper II(d)
Subject : Economics		
Course Code : ECOMJE604	Course Title : Basics of Computer Application in Economics	
Course Outcomes :		
1. The students will come to know about various devices related to computer system.		
2. The students will come to know about the number system used in computer system.		
3. The students will get familiar with various types of Basic Computer Application software's.		
4. The students will come to know about word processing software and internet.		

Department of Defence and Strategic Studies (DSS)

{Dr. Bharat Singh Chufal}

Program Outcomes (Pos)

1. Upon completion of the program of Bachelors in Defence and Strategic Studies a student should have acquired basic competency in strategic affairs covering a wide spectrum of interstate security to global security issues including non kinetic dimensions.
2. Shall develop capability in understanding the implications of use and threat of use of force in international relations.
3. Shall seek, identify and apply the acquired knowledge in Defence and Strategic Studies on contemporary issues of strategic relevance.
4. Ability to move from LOTS (Lower Order of Thinking Skills) to HOTS (Higher Order of Thinking Skills) in Defence and Strategic Studies.
5. The learning of strategic studies shall arm the candidates to independently choose further course of action in his/her life whether pursuing higher education by taking specialized course in honors or identifying a career for himself or herself.
6. The course curriculum in Defence and Strategic Studies is designed to encourage the acquisition of disciplinary/subject understanding, gain academic knowledge and professional skills required for any career pursuit be it choosing for higher studies or a job. The outcome based approach particularly in the contest of Defence and Strategic Studies for undergraduate program will incorporate a significance shift from teachers centric to learner centric pedagogies and from specific to active/participatory pedagogies where emphasis will be on field study, educational tours, writing assignments, seminar presentation and tutorials etc. Teaching therefore becomes interesting and absorbing aiming at demonstrative learning.

BA/B.Sc. First Year Certificate Fundamentals of Defence and Strategic Studies

Program Specific Outcomes (PSOs)

After undergoing this course a student will be in position to-

1. Clearly understand the definition, meaning and distinguish basic concepts of war, various types of war and its various typologies, techniques and characteristics and grasp the concept and theories of nuclear war in detail. (Semester-I)
2. Become familiar in the art of war in India learn and understand the strategy, tactics application of principles of war and causes of defeat and victory of various Indian, Mughal, Maratha and Sikh Generals. Besides in a position to appreciate and understand evolutionary changes in the art and science of war in India through ages. (SEMESTER –II)

BA/B.Sc. Second Year Diploma in Defence and Strategic Studies

Program Specific Outcomes (PSOs)

After undergoing this course a student will be in position to-

1. Develop core competencies in national security affairs by building his/her capacity on essentials of National Security through theory and practice. Understand the National Security challenges both Internal and External a country face and Understand the contemporary security environment in the world. (Semester-III)
2. Acquaint them with the concepts of Strategic thinking as propounded by prominent classical and modern

military thinkers. Students will also develop analytical thinking regarding relevance of such thought to the contemporary period.(Semester-IV)

**BA/B.Sc. Third Year
Degree in Bachelor of Arts or Science**

Program Specific Outcomes (PSOs) After undergoing this course a student will be in position to-

1. Equip the students with specific knowledge of international relations and how nation-state system works, Acquire competency in military and state - centric aspects of international relations. know the concepts Higher Defence Organizations of India and the Rank Structure of

the Three Services and Recruitment methods for Defence Services, learn about the Defence mechanism of India and evaluate its strengths and weaknesses.

2. Student will Learn about the the various types of warfare that are taught in the world. Goal is to understand the different types of war waged by nations at large, and Learn about the most important Himalayan State of India i.e. Uttarakhand and It’s Military Significance.

BA/B.Sc.I Semester I

Defence and Strategic Studies

Paper 01 Fundamentals of Defence and Strategic Studies(Theory)

<i>Programme/Class : Certificate</i>	<i>Year: First</i>	<i>Semester: I</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 101</i>	<i>Course Title: Fundamentals of Defence and Strategic Studies (Theory)</i>	
<i>Course out Comes: To introduce the discipline of Defence and Strategic Studies –its subjects contents- contemporary relevance, importance to contemporary world development and relationship-the goals of the discipline.</i>		

BA/B.Sc.I Semester II

Defence and Strategic Studies

***Paper 01 The Art of War in India
(Theory)***

<i>Programme/Class : Certificate</i>	<i>Year: First</i>	<i>Semester: II</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 201</i>	<i>Course Title: The Art of War in India (Theory)</i>	
<i>Course out Comes: This paper attempts to familiarize the students with the art of war in India. It is to establish that the art of warfare changes with changes in political governance, nature of threat, and weapon systems.</i>		

***Defence and Strategic Studies
Paper 01 National Security
(Theory)***

<i>Programme/Class : Certificate</i>	<i>Year: Second</i>	<i>Semester: III</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 301</i>	<i>Course Title: National Security (Theory)</i>	
<i>Course out Comes: To develop special subject knowledge on the vital concept of National Security and the approaches to achieve National Security (Special reference to India).</i>		

***BA/BSc II, Semester IV
Defence and Strategic
Studies
Paper- 01 Military Thinkers (Theory)***

<i>Programme/Class : Certificate</i>	<i>Year: Second</i>	<i>Semester: IV</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 401</i>	<i>Course Title: Military Thinkers (Theory)</i>	

Course out Comes: The paper provides basic knowledge about the concepts of selected strategic thinkers and their relevance even during the present times. To make the students realize the value of strategic thought in policy formation.

BA/BSc III, Semester V

Defence and Strategic

Studies

Paper- 01 International Relation and Organization (Theory)

<i>Programme/Class : Graduation</i>	<i>Year: Third</i>	<i>Semester: V</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 501</i>	<i>Course Title: International Relation and Organization (Theory)</i>	
<i>Course out Comes: Student will Learn about the international relations and how nation-state system works, acquire competency in military and state - centric aspects of international relations and organization.</i>		

Defence and Strategic

Studies

Paper- 02 Defence Mechanism of India (Theory)

<i>Programme/Class : Graduation</i>	<i>Year: Third</i>	<i>Semester: V</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 502</i>	<i>Course Title: Defence Mechanism of India (Theory)</i>	
<i>Course out Comes: Student will Know the Higher Defence Organizations of India and the Rank Structure of the Three Services and Recruitment methods for Defence Services, learn</i>		

about the Defence mechanism of India and evaluate its strengths and weaknesses.

***BA/BSc III,
Semester VI
Defence and
Strategic Studies***

Paper- 01 Modern Warfare (Theory)

<i>Programme/Class : Graduation</i>	<i>Year: Third</i>	<i>Semester: VI</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 601</i>	<i>Course Title: Modern Warfare (Theory)</i>	
<i>Course out Comes: Student will Learn about the the various types of warfare that are taught in the world.Goal is to understand the different types of war waged by nations at large.</i>		

***BA/BSc III,
Semester VI
Defence and
Strategic Studies***

Paper- 02 Military History of Uttarakhand (Theory)

<i>Programme/Class : Graduation</i>	<i>Year: Third</i>	<i>Semester: VI</i>
<i>Subject: Defence and Strategic Studies</i>		

<i>Course Code: DSS 602</i>	<i>Course Title: Military History of Uttarakhand (Theory)</i>
<i>Course out Comes: Student will Learn about the most important Himalayan State of India i.e. Uttarakhand and Its Military Significance.</i>	

***BA/BSc III,
Semester VI
Defence and
Strategic Studies
Paper- 04
Research Project
II***

<i>Programme/Class : Graduation</i>	<i>Year: Third</i>	<i>Semester: VI</i>
<i>Subject: Defence and Strategic Studies</i>		
<i>Course Code: DSS 604</i>	<i>Course Title: Research Project-II</i>	
<i>Course Outcomes: Improves writing and presentation abilities of the candidate.</i>		

Department of Chemistry

{Dr. Tarun Mohan}

Purpose of the Program

The Importance of chemistry arises because so many other disciplines draw on certain chemical principles and concepts. The purpose of the undergraduate chemistry program at the university and college level is to prepare our students for all those fields where basic knowledge of chemistry is required including academia for careers as professionals in various industries and research institutions.

Program Outcomes

- PO 1.** Students will have a firm foundation in the fundamentals and applications of chemical and scientific theories including those in analytical, inorganic, organic and physical chemistry.
- PO 2.** Students will be able to design and carry out scientific experiments as well as accurately record and analyze the data of such experiments.
- PO 3.** Students will develop skill in problem solving, critical thinking and analytical reasoning as applied to scientific problems.
- PO 4.** Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
- PO 5.** Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.
- PO 6.** Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems.
- PO 7.** Students will be able to function as a member of an interdisciplinary problem-solving team.

PROGRAM SPECIFIC OUTCOMES (PSOS)	
CERTIFICATE IN INTRODUCTORY CHEMISTRY	
First Year	Certificate in Introductory Chemistry will give the student a basic knowledge of all the fundamental principles of chemistry like atomic structure, molecular polarity, bonding theories of different molecules, resonance concept, hyperconjugation, field effects, periodic properties of more than 111 elements, mechanism of organic reactions, stereochemistry, detailed study of states of matter including kinetic theories of gases, solid and liquid states, chemistry of aliphatic and aromatic compounds, chemical kinetics, its scope and first law of thermodynamics. Student will be able to understand the qualitative and quantitative chemical analysis of the compounds in the laboratory. This certificate course is definitely going to prepare the students for various fields of chemistry and will give an insight into all the branches of chemistry. It will enable students to join the diploma course (semester III and IV) in any University or College of Higher education in Uttarakhand
Second Year	DIPLOMA IN CHEMICAL SCIENCE

	Diploma in Chemical Science will provide the theoretical as well as practical knowledge of handling chemicals, apparatus, equipment and instruments. The knowledge about second law of thermodynamics, chemical equilibrium, phase equilibrium, electrochemistry, coordination chemistry, acid-base theories, chemistry of transition elements, halides, alcohols, phenols, aldehydes, ketones and carboxylic acids will enable the students to work as chemists in various industries. The experimental work during the diploma course will enhance the skill of the students regarding chemical and physical tests of inorganic as well as organic compounds along with some physical experiments which will be beneficial to achieve their goals in industrial sectors. It will enable students to join the Bachelor of Science course (semester V and VI) in any University or College of Higher education in Uttarakhand
Third Year	DEGREE IN BACHELOR OF SCIENCE
	Degree in Bachelor of Science programme aims to introduce very important aspects of modern-day course curriculum, namely, chemistry of nitrogen containing compounds, organometallic, lipids, fats, dyes, paints, reagents in organic synthesis, carbohydrates, proteins, biomolecules, data analysis, nano-chemistry, green chemistry, stability of coordination compounds, cement, paint, ceramics, glass, inorganic fertilizers, radioactivity, corrosion, magnetic behaviour of transition metal complexes, surface chemistry, quantum mechanics, solutions, third law of thermodynamics, photochemistry, and spectroscopic techniques. This knowledge will make the students skilled to work in various chemical industries like cement industries, agro product, paint industries, rubber industries, petrochemical industries, food processing industries, fertilizer industries, pollution monitoring and control agencies etc. It will also enable the students to understand the importance of the biomolecules in biological science and related fields. Upon completion of a degree, chemistry students will be able to employ critical thinking and scientific inquiry in the performance, design, interpretation and documentation of laboratory experiments. It will help a candidate to succeed at an entry-level position in chemical industry or a chemistry postgraduate program.

Paper-I (Theory)

Course Title: Fundamentals of Chemistry-I

Programme/Class: Certificate in Introductory Chemistry	Year: First	Semester: First
Paper-I Theory Subject: Chemistry		
Course Code:	Course Title: Fundamentals of Chemistry-I	

Course outcomes: There is nothing more fundamental to chemistry than the chemical bond. Chemical bonding is the language of logic for chemists. Chemical bonding enables scientists to take the 100-plus elements of the periodic table and combine them in myriad ways to form chemical compounds and materials. Periodic trends, arising from the arrangement of the periodic table, provide chemists with an invaluable tool to quickly predict an element's properties. These trends exist because of the similar atomic structure of the elements within their respective group families or periods, and because of the periodic nature of the elements. Reaction mechanism gives the fundamental knowledge of carrying out an organic reaction in a step-by-step manner. This course will provide a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. Students will gain an understanding of;

- ✓ Molecular geometries, physical and chemical properties of the molecules.
- ✓ Current bonding models for simple inorganic and organic molecules in order to predict structures and important bonding parameters.
- ✓ This course gives a broader theoretical picture in multiple stages in an overall chemical reaction.
- ✓ It describes reactive intermediates, transition states and states of all the bonds broken and formed.

- ✓ It enables to understand the reactants, catalyst, stereochemistry and major and minor products of any organic reaction. It describes the types of reactions and the kinetic and thermodynamic aspects one should know for carrying out any reaction and the ways how the reaction mechanism can be determined.
- ✓ The chapter stereochemistry gives the clear picture of two-dimensional and three-dimensional structure of the molecules, and their role in reaction mechanism. The course will also strengthen the knowledge of students regarding complete picture of states of matter that includes gaseous, liquid, solid and colloidal states.

Semester-I, Paper-II (Practical)

Course Title: Chemical Analysis -I

Programme/Class: Certificate in Introductory Chemistry	Year: First	Semester: First
Paper-2 Practical Subject: Chemistry		
Course Code:	Course Title: Chemical Analysis-I	

Course outcomes:

Upon completion of this course, the students will have the knowledge and skills to: understand the laboratory methods and tests related to inorganic mixture analysis and estimation of surface tension of commercial products. Also, they can understand the absolute configuration of organic molecules with the help of models. The students will able to

- ✓ Qualitatively estimate anions and cations in samples.
- ✓ Determine the relative surface tension of a given liquid.
- ✓ Find out the absolute configuration of organic molecules.

Semester-II

Paper-I (Theory)

Course Title: Fundamentals of Chemistry-II

Programme/Class: Certificate in Introductory Chemistry	Year: First	Semester: Second
Paper-I Theory Subject: Chemistry		
Course Code:	Course Title: Fundamentals of Chemistry-II	

Course outcomes: Upon successful completion of this course, the students will be able to describe the reactions shown by aliphatic and aromatic compounds. They will also able to understand the bonding in inorganic molecules, salient features of s- and p- block elements, different aspects of chemical kinetics, catalysis and first law of thermodynamics.

Semester-II, Paper-II (Practical)

Course Title: Chemical Analysis -II

Programme/Class: Certificate in Introductory Chemistry	Year: First	Semester: Second
Paper-2 Practical Subject: Chemistry		
Course Code:	Course Title: Chemical Analysis -II	

Course outcomes:

After completing this course, the students will be able to quantitatively find out the amount of acid or base in the samples, to qualitatively differentiate among different classes of organic compounds and to measure the relative viscosity of a given liquid.

**Semester-III
Paper-I (Theory)**

Course Title: General Chemistry-I

Programme/Class: Diploma in Chemical Science	Year: Second	Semester: Third
Paper-I Theory Subject: Chemistry		
Course Code:	Course Title: General Chemistry-II	

Course outcomes: This paper provides detailed knowledge of synthesis of various classes of organic compounds and functional groups inter conversion. Organic synthesis is the most important branch of organic chemistry which provides jobs in production & QC departments related to chemicals, drugs, medicines, FMCG etc. industries.

- ✓ It relates and gives an analytical aptitude for synthesizing various industrially important compounds.
- ✓ This paper also provides a detailed knowledge on the elements present in our surroundings, their occurrence in nature. Their position in periodic table, their physical and chemical properties. This paper also gives detailed understanding of the d-block elements and their characteristics.
- ✓ After successful completion of this course, the students will be able to gather the information regarding Werner's theory and VBT of transition metal complexes.
- ✓ Students will be able to learn the basic concepts of spontaneity, chemical and phase equilibrium and able to apply these concepts in predicting the spontaneous reactions and will be able to solve the numerical problems based on these concepts.

Semester-III Paper-II (Practical)

Course Title: Analytical Procedures-I

Programme/Class: Diploma in Chemical Science	Year: Second	Semester: Third
Paper-II Practical Subject: Chemistry		
Course Code:	Course Title: Analytical Procedures-I	

Course outcomes:

After completing this course, the students will be able to test the inorganic mixtures of acidic and basic radicals in given samples, to qualitatively differentiate between alcohols and phenols and determine the critical solution temperature of partially miscible liquids.

**Semester-IV
Paper-I (Theory)**

Course Title: General Chemistry-II

Programme/Class: Diploma in Chemical Science	Year: Second	Semester: Fourth
Paper-I Theory Subject: Chemistry		
Course Code:	Course Title: General Chemistry-II	

Course outcomes: This paper provides detailed knowledge of synthesis of aldehydes, ketones, carboxylic acids and functional groups inter conversion. The students will be able to describe the concepts of electrochemistry in detail and its applications. Also, they will be able to solve the numerical problems based on these concepts. Students will be able to define the acids and bases on the basis of various concepts/ theories and will be able to identify the position of various elements in the periodic table and able to explain their properties on the basis of their position.

Semester-IV Paper-II (Practical)
Course Title: Analytical Procedures-II

Programme/Class: Diploma in Chemical Science	Year: Second	Semester: Fourth
Paper-II Practical Subject: Chemistry		
Course Code:	Course Title: Analytical Procedures-II	

Course outcomes:

After completing this course, the students will be able to determine the concentrations of oxidising and reducing agents through double titration, qualitatively differentiate between aldehydes, ketones and carboxylic acids and determine the solubility of salts.

Semester-V
Paper-I (Theory)
Course Title: Inorganic Chemistry

Programme/Class: Degree in Bachelor of Science	Year: Third	Semester: Fifth
Paper-1 Theory Subject: Chemistry		
Course Code:	Course Title: Inorganic Chemistry	

Course Outcomes: Upon successful completion of this course, the students will be able to describe the stability, crystal field theory, electronic spectra and magnetic properties of coordination compounds. They will also learn about organometallic compounds, some industrially important inorganic materials and their applications in various industries. It will assist them to get a suitable job in the relevant industrial and scientific field.

Semester-V
Paper-II (Theory)
Course Title: Organic Chemistry

Programme/Class: Degree in Bachelor of Science	Year: Third	Semester: Fifth
Paper-II Theory Subject: Chemistry		
Course Code:	Course Title: Organic Chemistry	

Course Outcomes: Upon successful completion of this course, the students should be able to describe the chemistry of nitrogen containing compounds, the basic understanding of the chemistry of industrially important materials such as lipids, fats, soaps, detergents, dyes, paints and reagents in organic synthesis. Upon completion of this course students may get job opportunities in food, soap, detergent, paint and other organic material based synthetic labs and industries. Biomolecules are important for the functioning of living organisms. These molecules perform or trigger important biochemical reactions in living organisms. When studying biomolecules, one can understand the physiological function that regulates the

proper growth and development of a human body. This course aims to introduce the students with basic experimental understanding of carbohydrates and proteins.

Semester-V, Paper-III (Practical)
Course Title: Analytical Procedures-III

Programme/Class: Certificate in Introductory/General Chemistry	Year: Third	Semester: Fifth
Paper-III Practical Subject: Chemistry		
Course Code:	Course Title: Analytical Procedures-III	

Course outcomes:

Upon completion of this course, the students will have the knowledge and skills to understand the synthetic methods related to inorganic and organic fields. Also, they can easily analyze the nitrogen containing compounds and separate the binary organic mixture.

Semester-VI
Paper-I (Theory)
Course Title: Physical Chemistry

Programme/Class: Degree in Bachelor of Science	Year: Third	Semester: Sixth
Paper-I Theory Subject: Chemistry		
Course Code:	Course Title: Physical Chemistry	

Course outcomes: The core concepts of Physical Chemistry have been included in this semester with a view that students' command over these topics will help them to understand the higher chemistry in PG classes. Their understanding of Photochemistry and Solutions will help him to explain the day today phenomenon of the relevant field whereas. Thermodynamics will help them to understand the natural flow of energy. Learning the Quantum Mechanics will help them to praise the beauty of behavior of fundamental particles. It will assist them to get a suitable job in the relevant industrial and scientific field.

Semester-VI
Paper-II (Theory)
Course Title: Analytical Chemistry

Programme/Class: Degree in Bachelor of Science	Year: Third	Semester: Sixth
Paper-II Theory Subject: Chemistry		
Course Code:	Course Title: Analytical Chemistry	

Course outcomes: After completion of this course, the students will be able to understand the chemistry of biomolecules. They will become acquainted in the field of data analysis. The new frontiers of chemistry such as nano-chemistry and green chemistry are the part of syllabi of this course which boost the knowledge of the students in these fields. The chemistry of industrially important inorganic materials such as cement, ceramics, glass and inorganic fertilizers has been incorporated in the course to enhance the skills and capability of the

students pursuing this course. The students will also be able to understand the analytical techniques such as electro-gravimetric analysis, coulometric analysis, thermogravimetry, polarography and chromatography.

- ✓ Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
- ✓ Students will be able to function as a member of an interdisciplinary problem solving team.
- ✓ Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.
- ✓ Students will gain an understanding of how to determine the structure of organic molecules using UV, IR and NMR spectroscopic techniques.

Semester-VI, Paper-III (Practical)

Course Title: Analytical Procedures-IV

Programme/Class: Certificate in Introductory/General Chemistry	Year: Third	Semester: Sixth
Paper-III Practical Subject: Chemistry		
Course Code:	Course Title: Analytical Procedures-IV	

Course outcomes: Upon completion of this course, the students will have the knowledge and skills to determine the heat of neutralization, solubility of organic compounds by titration method. They will be able to estimate different metal ions through gravimetric exercise. Spectroscopic and chromatographic exercise will train them to interpret the spectral data and chromatograms of organic compounds and will make them job ready for suitable industries.

Department of Botany

{Ms. Priyanka Dimri}

COURSE INTRODUCTION

The new curriculum of B.Sc. in Science (Botany) offers essential knowledge and technical skills to study plants in a holistic manner. Students would be trained in all areas of plant biology using a unique combination of core, elective and vocational papers with significant inter-disciplinary components. Students would be exposed to cutting-edge technologies that are currently being used in the study of plant life forms, their evolution and interactions with other organisms within the ecosystem. Students would also become aware of the social and environmental significance of plants and their relevance to the national economy.

B.Sc. Botany Programme covers academic activities within the classroom sessions along with practical concepts at laboratory sessions. Infield, outstation activities and projects would also be organized for real-life experience and learning. Candidates who have curiosity in plants kingdom, ecosystem, love exploring exotic places and wish to work as researchers or professions like Botanist, Conservationist, Ecologist, etc. can choose B.Sc. Botany course.

Programme outcomes (POs):

Transformed curriculum shall develop educated outcome-oriented candidature, fostered with discovery- learning, equipped with practice & skills to deal practical problems and versed with recent pedagogical trends in education including e-learning, flipped class and hybrid learning to develop into responsible citizen for nation-building and transforming the country towards the future with their knowledge gained in the field of plant science.

PO1	CBCS syllabus with a combination of general and specialized education shall introduce the concepts of breadth and depth in learning.
PO2	Shall produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development.
PO3	Will increase the ability of critical thinking, development of scientific attitude, handling of problems and generating solutions, improve practical skills, enhance communication skill, social interaction, and increase awareness in judicious use of plant resources by recognizing the ethical value system.
PO4	The training provided to the students will make them competent enough for doing jobs in Govt. and private sectors of academia, research and industry along with graduate preparation for national as well as international competitive examinations, especially UGC-CSIR NET, UPSC Civil Services Examination, IFS, NSC, FCI, BSI, FRI etc.

PO5	Certificate and diploma courses are framed to generate self- entrepreneurship and self- employability, if multi exit option is opted.
PO6	Lifelong learning is achieved by drawing attention to the vast world of knowledge of plants and their domestication.

Programme specific objectives (PSOs): B.Sc. I Year Certificate Course in Basic Botany

- This certificate course will provide knowledge on various fields of basic Botany.
- The syllabus is prepared to enable students for competitive exams in frontier areas of plant sciences.
- Students will be able to know about habit, habitat, morphology, anatomy and reproduction of various plant groups.

Programme specific outcomes (PSOs): B.Sc. II Year/ Diploma Course in Developmental Botany

- This programme will provide knowledge on plant anatomy, embryology and cytogenetics.
- Laboratory sessions following theory will provide easy understanding of internal structure of various plant parts, structural organization, reproductive biology and genetics.
- This course will help students to become a plant morphologist.

Programme specific outcomes (PSOs): B.Sc. III Year/ Bachelor of Science

- The three year learning outcome of graduation will provide understanding of plant systematic, developmental biology, ecology, statistics, physiology, biochemistry, anatomy, and plant genetics.
- It will provide expertise in conservation biology and reproduction biology.
- After completing this course successfully students will be able to contribute in the field of plant sciences. The research project will help to develop research aptitude for higher education and scientific research.

DETAILED SYLLABUS OF B.Sc. I YEAR FOR CERTIFICATE COURSE IN BASIC BOTANY

Course	Year	Semester
<i>Certificate Course in Basic Botany</i>	<i>B.Sc. I</i>	<i>I</i>

Paper 1: Microbes, Algae, Fungi and Bryophytes (Course code: BOT101T) Credit: 4

Course Outcome

After the completion of the course the students will be able to:

1. Develop understanding about the classification and diversity of different microbes including viruses, Algae, Fungi & Lichens & their economic importance.
2. Develop conceptual skill about identifying microbes, pathogens, biofertilizers & lichens.
3. Gain knowledge about developing commercial enterprise of microbial products.
4. Learn host –pathogen relationship and disease management.
5. Gain Knowledge about uses of microbes in various fields.
6. Understand the structure and reproduction of certain selected bacteria algae, fungi and lichens
7. Develop critical understanding on morphology, anatomy and reproduction of Bryophytes.

Paper 2: Practical/ Lab course (Course code: BOT102P) Credit: 2

Course Outcome

After the completion of the course the students will be able:

1. Understand the instruments, techniques, lab etiquettes and good lab practices for working in a microbiology laboratory.
2. Develop skills for identifying microbes and using them for Industrial, Agriculture and Environment purposes.
3. Practical skills in the field and laboratory experiments in Microbiology and Pathology.
4. Learn to identify algae, lichens and plant pathogens along with their symbiotic and parasitic associations.
5. Students would learn to create their small digital reports where they can capture the zoomed in and zoomed out pictures as well as videos in case they are able to find some rare structure or phenomenon related to Bryophytes.

Course outcomes:

1. The students will be made aware of the group of plants that have given rise to land habit and the flowering plants. Through field study they will be able to see these plants growing in nature and become familiar with the biodiversity.
2. Develop an understanding by observation and table study of representative members of phylogenetically important groups to learn the process of evolution in a broad sense.
3. Understand morphology, reproduction and developmental changes therein through typological study and create a knowledge base in understanding the basis of plant diversity, economic values & taxonomy of plants.

Course	Year	Semester
<i>Certificate Course in Basic Botany</i>	<i>B.Sc. I</i>	<i>II</i>

Paper 1: Pteridophytes, Gymnosperms and Angiosperms (BOT201T) Credit: 4**Course Outcome**

After the completion of the course the students will be able to:

1. Develop critical understanding on morphology, anatomy and reproduction of Pteridophytes, Gymnosperms and Angiosperms.
2. Understanding of plant evolution and their transition to land habitat.
3. To learn the major patterns of diversity among plants, and the characters and types of data used to classify plants.
4. To compare the different approaches to classification with regard to the analysis of data.
5. To become familiar with major taxa and their identifying characteristics, and to develop in depth knowledge of the current taxonomy of a major plant family.
6. To discover and use diverse taxonomic resources, reference materials, herbarium collections, publications.

**DETAILED SYLLABUS OF B.Sc. II YEAR OR DIPLOMA COURSE IN
DEVELOPMENTAL BOTANY**

Course	Year	Semester
<i>Diploma Course in Developmental Botany</i>	<i>B.Sc. II</i>	<i>III</i>

Paper 1: Morphology and Anatomy (Course code: BOT301T) Credit: 4

Course outcomes:

1. Understand morphology and anatomy.
2. Understand role of tissues in plant functions.
3. Understand the composition, modifications, internal structure & architecture of plants.

Paper 2: Ecology and Biostatistics (Course code: BOT602T) Credit: 4

Course outcome

1. Acquaint the students with complex interrelationship between organisms and environment;
2. Make them understand methods for studying vegetation, community patterns and processes, ecosystem functions, and principles of phytogeography.
3. Understanding the strategies for sustainable natural resource management and biodiversity conservation.
4. Practical knowledge of the different statistics tools and techniques.

Paper 4: Project in Botany for Pre-graduation (Course code: BOT504R) Credit: 4

(Based on Local Plant Diversity)

Course	Year	Semester
<i>Bachelor of Science</i>	<i>B.Sc. III</i>	<i>VI</i>

Paper 1: Plant Physiology and Biochemistry (BOT601T) Credit: 4

Course outcome

1. Understand the role of physiological and metabolic processes for plant growth and development.
2. Learn the symptoms of mineral deficiency in crops and their management.
3. Assimilate knowledge about Biochemical constitution of plant diversity.
4. Know the role of plants in development of natural products, nutraceuticals, dietary supplements, antioxidants.

Paper 3: Lab Course (Course code: BOT503P) Credit: 2

Course outcomes

1. Learn the basic structure and function of cells and instruments used in molecular biology,
2. Know about the commercial products produced from plants.
3. Understand about the ethnobotanical details of plants.
4. Learn about the chemistry of plants and herbal preparations.

Paper 2: Economic Botany and Plant Breeding (Course code: BOT502T) Credit: 4

Course outcomes

1. Know about the importance of medicinal plants and its useful parts, economically important plants in our daily life and also about the traditional medicines and herbs, and its relevance in modern times.
2. Understand the plant breeding systems and heterosis and mutation in plant breeding.

Paper 1: Cell and Molecular Biology, and Biotechnology (Course code: BOT501T) Credit: 4

Course outcomes:

1. Understand cell structure, nucleic acids, organization of DNA in prokaryotes and Eukaryotes, DNA replication mechanism, genetic code and transcription process.
2. Know about processing and modification of RNA and translation process, function and regulation of expression.
3. Understand the basic tools and techniques used in Plant tissue culture.

Course	Year	Semester
<i>Diploma Course in Developmental Botany</i>	<i>B.Sc. II</i>	<i>IV</i>

Paper 1: Embryology and Cytogenetics (course code: BOT401) Credit: 4

Course outcomes:

1. Understand reproduction and developmental changes in plants.
2. Understand the structure and chemical composition of chromatin and concept of cell division.
3. Interpret the Mendel's principles; acquire knowledge on cytoplasmic inheritance and sex-linked inheritance.

0 *Law*

Paper 3: Practical/lab Course (Course code: BOT603P) Credit: 2

Course outcome

1. Understand the role of different physiological and metabolic processes of plants.
2. Gaining practical knowledge implemented in the biodiversity assessment and conservation.
3. Practical knowledge of the different statistics tools and techniques.

{Mr. Mayank}

B.A./ B.Sc. I (SEMESTER-I) Paper-II

Practical

Programme: Certificate	Year: First	Semester: First
Class: B.A./B.Sc.		
Course Code: UGMAT102P	Subject: Mathematics	
Course outcomes:	Course Title: Practical	
<p>CO1: The main objective of the course is to familiar the student with different computer software such as Mathematica /MATLAB /Maple /Scilab/Maxima etc.</p> <p>CO2: The students will be able to compute various operations on matrices by using different computer software such as Mathematica /MATLAB /Maple /Scilab/Maxima etc.</p> <p>CO3: The students will also be able to compute n^{th} derivative of various functions by using different computer software.</p>		

B.A. / B.Sc. I (SEMESTER-I) PAPER-I
Matrices, Trigonometry and Differential Calculus

Programme: Certificate	Year: First	Semester: First
Class: B.A. / B.Sc.		
Course Code: UGMAT101T	Subject: Mathematics	
Course outcomes:	Course Title: Matrices, Trigonometry and Differential Calculus	
<p>CO1: The programme outcome is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for developing enhanced quantitative skills and pursuing higher mathematics and research as well.</p> <p>CO2: By the time students complete the course they will have wide ranging application of the subject and have the knowledge of matrices and basics of differentiation.</p> <p>CO3: The student will be able to sum the trigonometric series of real and complex numbers and separate the trigonometric function in form of $A+iB$.</p> <p>CO4: The main objective of the course is to equip the student with necessary analytic and technical skills. By applying the principles of differentiation, he learns to solve a variety of practical problems in science and engineering.</p> <p>CO5: The student is equipped with standard concepts and tools at an intermediate to advance level that will serve him well towards taking more advance level course in mathematics.</p>		

Programme Outcome/Programme Specific Outcome

Programme Outcome:

- PO1: It is to give in-depth knowledge of geometry, algebra, calculus, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects.
- PO2: The skills and knowledge gained in this program will be helpful for modeling and solving of real life problems.
- PO3: Students will become employable in various government and private sector.
- PO4: The completing this programme develop enhanced quantitative skills and pursuing higher mathematics and research as well.
- PO5: The completion of this programme will enable the learner to use appropriate digital programmes and softwares to solve various mathematical problems.

Programme Specific Outcome:

- SO1: Student should be able to think in a critical manner and develop problem solving skills.
- SO2: Students should be able to recall basic facts about mathematics and display knowledge of conventions such as notations, terminology etc.
- SO3: Students are able to formulate and develop mathematical arguments in a logical manner.
- SO4: Students are motivate and prepare for research studies in mathematics and related fields.
- SO5: Student should be able to apply their skills and knowledge in various fields of studies including, science, engineering, commerce and management etc.

**B.A. / B.Sc. I (SEMESTER-II) PAPER – I
Integral calculus and Vector Analysis**

Programme: Certificate	Year: First	Semester: Second
Class: B.A./B.Sc.		
Course Code: UGMAT201T	Subject: Mathematics	
Course outcomes:	Course Title: Integral calculus and Vector Analysis	
CO1: The Programme outcome is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for developing enhanced quantitative skills and pursuing higher mathematics and research as well. CO2: By the time students complete the course they will have wide ranging application of the subject and have the knowledge of surface area and volume of shapes. CO3: The main objective of the course is to equip the student with necessary analytic and technical skills. By applying the principles of integral he learns to solve a variety of practical problems in science and engineering. CO4: The student is equipped with standard concepts and tools at an intermediate to advance level that will serve him well towards taking more advance level course in mathematics.		

B.A./B.Sc. II (SEMESTER-III) PAPER-I Group Theory and Analytical Geometry

Programme: Diploma	Year: Second	Semester: Third
Class: B.A./B.Sc.		
Course Code: UGMAT301T	Subject: Mathematics	
Course outcomes:	Course Title: Group Theory and Analytical Geometry	
CO1: Group theory is one of the building blocks of modern algebra. Objective of this course is to introduce students to basic concepts of Group and their properties. CO2: This course will lead the student to basic course in advanced mathematics and geometry. CO3: The subjects learn and visualize the fundamental ideas about coordinate geometry and learn to describe some of the surface by using analytical geometry. CO4: On successful completion of the course students have gained knowledge about regular geometrical figures and their properties. They have the foundation for higher course in geometry. CO5: On successful completion of the course students should have knowledge about higher different mathematical methods and will help him in going for higher studies and research.		

B.A./B.Sc. II (SEMESTER-IV) PAPER-I Ordinary Differential Equations and Ring Theory

Programme: Diploma Class: B.A./B.Sc.	Year: Second	Semester: Fourth
Subject: Mathematics		
Course Code: UGMAT401T	Course Title: Ordinary Differential Equations and Ring Theory	
<p>Course outcomes:</p> <p>CO1: The objective of this course is to familiarize the students with various methods of solving differential equations of first and second order and to have qualitative applications.</p> <p>CO2: A student doing this course is able to solve differential equations and is able to model problems in nature using ordinary differential equations. After completing this course, a student will be able to take more courses on wave equation, heat equation, diffusion equation, gas dynamics, nonlinear evolution equation etc.</p> <p>CO3: Ring theory is one of the building areas of modern algebra. Objective of this course is to introduce students to basic concepts of Ring, Integral domain and other structures with their properties. This course will lead the student to basic course in advanced mathematics and Algebra.</p>		
Credits: 6		

B.A./B.Sc. III (SEMESTER-VI) PAPER-I Complex Analysis and Mechanics

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Sixth
Subject: Mathematics		
Course Code: UGMAT601T	Course Title: Complex Analysis and Mechanics	
<p>Course outcomes:</p> <p>CO1: The course is aimed at exposing the students to foundations of analysis which will be useful in understanding various physical phenomena and gives the student the foundation in mathematics.</p> <p>CO2: Upon successful completion, students will be able to understand the complex variables, analytic functions, complex integration and residues.</p> <p>CO3: The object of the paper is to give students knowledge of basic mechanics such as simple harmonic motion, motion under other laws and forces.</p> <p>CO4: The student, after completing the course can go for higher problems in mechanic such as hydrodynamics, this will be helpful in getting employment in industry.</p>		
Credits: 5		

B.A./B.Sc. III (SEMESTER-V) PAPER-II (iii) Numerical Analysis and Operations Research

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Fifth
Subject: Mathematics		
Course Code: UGMATS02T	Course Title: Numerical Analysis and Operations Research	
Course outcomes:		
CO1: After Successful completion of this course the student will be able to perform error analysis for arithmetic operations.		
CO2: Upon successful completion, students will be able to understand the use of interpolation and curve fitting and finite differences.		
CO3: After Successful completion of this course students will be able to use some solution methods for solving the linear programming problems.		
Credits: 5		

B.A./B.Sc. III (SEMESTER-V) PAPER-II (ii) Number Theory and Relativity

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Fifth
Subject: Mathematics		
Course Code: UGMATS02T	Course Title: Number Theory and Relativity	
Course outcomes:		
CO1: The student will be able to solve problems in elementary number theory and also apply elementary number theory to cryptography.		
CO2: Upon successful completion, students will be able to describe the basic concepts of the theory of relativity.		
CO3: After Successful completion of this course students will be able to discuss postulates of the special theory of relativity and their consequences.		

B.A./B.Sc. III (SEMESTER-V) PAPER-II (i) Mathematical Methods and Graph Theory

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Fifth
Subject: Mathematics		
Course Code: UGMATS02T	Course Title: Mathematical Methods and Graph Theory	
Course outcomes:		
CO1: The student will be able to find the integral transform, Laplace transform, inverse Laplace transform and Fourier transform. The course in mathematical methods basically develops a problem solving skill in the students.		
CO2: Upon successful completion, students will have the knowledge of various types of graphs, their terminology and applications.		
CO3: After Successful completion of this course students will be able to understand the isomorphism and homomorphism of graphs. This course covers the basic concepts of graphs used in computer science and other disciplines. The topics include path, circuits, adjacency matrix, tree, coloring. After successful completion of this course the student will have the knowledge graph coloring, color problem, vertex coloring.		
Credits: 5		

B.A./B.Sc. III (SEMESTER-V) PAPER-I Real Analysis, Functions of several variables and Partial Differential Equations

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Fifth
Subject: Mathematics		
Course Code: UGMAT501T	Course Title: Real Analysis, Functions of several variables and Partial Differential Equations	
<p>Course outcomes:</p> <p>CO1: Students will be able to know the basic concepts and developments of real analysis which will prepare the students to take up further applications in the relevant fields.</p> <p>CO2: On successful completion of the course students should have knowledge about real analysis and will help him in going for higher studies and research.</p> <p>CO3: The main objective of the course is to equip the student with necessary analytic and technical skills.</p> <p>CO4: The course in partial differential equation intends to develop problem solving skills for solving various types of partial differential equation especially hyperbolic, parabolic and elliptic types of PDE.</p>		

B.A./B.Sc. III (SEMESTER-VI) PAPER-II Linear Algebra and Metric Spaces

Programme: Degree Class: B.A./B.Sc.	Year: Third	Semester: Sixth
Subject: Mathematics		
Course Code: UGMAT602T	Course Title: Linear Algebra and Metric Spaces	
<p>Course outcomes:</p> <p>CO1: Linear algebra is a basic course in almost all branches of science. The objective of this course is to introduce a student to the basics of linear algebra and some of its applications.</p> <p>CO2: After Successful completion of this course, students should be able to understand the concept of linear transformation.</p> <p>CO3: On successful completion of the course students should have knowledge about metric spaces, connectedness and compactness.</p>		

Department of Zoology

{Dr. Manveer Kandari}

Preamble

The objective of any program at Higher Education Institute is to prepare their students for the society at large. The Sri Dev Suman Uttarakhand University, Badshathaul, New Tehri is to prepare their students for sustainability and lifelong learning. It envisions its entire program in the best interest of their students and in this endeavor provides a focused, outcome based syllabus at the graduate and post graduate levels.

Renewing and updating of the curriculum is the essential, continuous and perpetual exercise of any vibrant Academic System. The department of zoology offers update and pertinent teaching programme with emphasis on fundamentals as well as emerging areas of modern biology. Courses within zoology are upgraded keeping in mind the aspirations of the students, changing nature of the subject as well as to maintain the standard of Zoology degree programme across the country.

Introduction

Zoology is one of the most fundamental branches of biology studied at undergraduate level. Zoology is a broad subject encompassing classical and modern systemic aspect of animal diversity as well as contemporary subjects like molecular biology, bioinformatics, biotechnology etc. The scope of zoology as a subject is wide-ranging. The major areas of study within the discipline of zoology are: Diversity of Non-chordates and chordates; Comparative Anatomy of Vertebrates; Cell Biology; Developmental biology; Biochemistry; Molecular Biology; Evolutionary Biology; Principle of Genetics; Principles of Ecology and Physiology etc. Degree course in Zoology deals with other topics that overlap with the area mentioned above (Immunology; Parasitology; Basics of Neurosciences; Animal Behaviour and Chronobiology; Animal Biotechnology; Biology of insects; Endocrinology; Computational Biology; Fish and Fisheries; Reproductive Biology and Wildlife Conservation and Management) and that address the topics related to applied fields (such as Apiculture; Aquarium Fish Keeping; Med Diagnostics; Research Methodology and Sericulture).

This will provide them ample opportunities to explore different career avenues. The course has been designed to provide in-depth knowledge of applied subjects to develop various skills to make a career and become an entrepreneur in the field of aquatic biology, sericulture, apiculture etc. After completion of this course students will be able to contribute as policy makers in wild life conservation animal preservation and environment protection.

Aim of Bachelor Degree Programme

The aim of zoology degree programme is to provide platform to learn and understand the concepts regarding animal diversity to appreciate the variability in relation to their morphology, anatomy and behaviour among different animals. After studying this course our students will be equipped to learn and know about different human systems, their coordination and control. This course will also provide an opportunity to understand their own evolution along with other animals. They will be able to qualitatively and quantitatively analyse evolutionary parameters using various bioinformatics and computational tools used in modern sciences. This will provide them ample opportunities to explore different career avenues.

applied subjects ensuring the inculcation of employment skills so that students can make a career and become an entrepreneur in diverse field of aquatic biology, sericulture, apiculture etc. After completion of this course students can contribute as policy makers in wild life conservation animal preservation and environment protection.

Course Objective (CO):

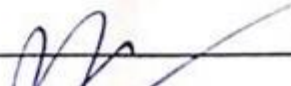
- The programme in Zoology aims to equip students with recent advances in Zoology from organismic to reductionist biology.
- It also aims to empower students to understand the challenges of society and the country that falls into the realms of Zoology, such as Aquaculture, Reproductive health, Behavior and Biological time keeping, Cancer Biology, Microbiome and their roles in health and diseases, Bioremediation of pollutants and pesticides, etc.
- It also offers students to a series of elective courses so that they can choose to specialize in the specific area of their interests in Zoology.
- The open elective has been chosen to attract students from diverse interdisciplinary areas of sciences, such as Anthropology, Environmental studies, Biomedical Sciences, etc.
- This course is designed to ignite the inquisitive mind to enter in to research in interdisciplinary areas. The fourth semester offers a total of 16 elective courses, which for logistics of programme management, are divided in to four streams, where a student has to choose a stream.
- In the entire course, the major emphasis is on skill-based training into socially relevant areas of Zoology.
- It is expected that a student after successfully completing the programme would sufficiently be skilled and empowered to solve the problems in the realms of Zoology and its allied areas.
- They would have plethora of job opportunities in the education, environment, agriculture-based, and health related sectors.
- The bright and ignited mind may enter into research in the contemporary areas of Zoological/Biological Sciences.
- The broad skills and the deeper knowledge in the field would make them highly successful and excellent researcher in advanced areas of research in the Biological sciences.

Programme Objective (POs):

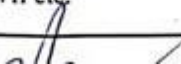
PO 1	It will enhance the basic knowledge about the different systems of an organism and the clinical study of biomolecules.
PO 2	It will help students to pursue the initial fundamentals required for future projects and higher studies.
PO 3	It will help to inculcate the evolutionary basis of various animals and their development. It will also address the present situation of animal diversity.
PO 4	It will help students to identify the concepts about various Applied sciences and Medical laboratory techniques related to concerned area.
PO 5	It will help to develop the knowledge on taxonomy of insects. Also, the conservation of wild animals to enhance the economy gained by the zoological content present in the environment.
PO 6	All the above POs will lead to a mind that can develop modern technologies to address the problems and to give solution to it.

Programme Specific Objective (PSO):

<i>CERTIFICATE COURSE IN CLINICAL DIAGNOSTICS & BIOCHEMISTRY</i>	
YEAR 1	This will help students to generate employment in the field of clinical & medical lab/institutions/gene bank/stem cell culture/Pharma companies etc.
<i>DIPLOMA IN MOLECULAR SCIENCES & CLINICAL MICROBIOLOGY</i>	
YEAR 2	This will help students to develop the scientific ability in the field of toxicological, Histological, Microbiological, Molecular labs, various Zoological Parks, National Parks, Wildlife Sanctuaries.
<i>BACHELOR OF SCIENCE (ZOOLOGY)</i>	
YEAR 3	This will help students to develop the basis of Animal diversity and its development, which can generate various academic/Research jobs and various other jobs in the field of In-vitro labs, case study of endocrinology in medical labs etc.



<i>BACHELOR (RESEARCH) IN FACULTY</i>	
YEAR 4	It will help students to pursue career in various health related departments and medical laboratories. It is beneficial for students as they can work in different Chrono-centre as per demands for biological clock management to travel across continents (both public and private sector).
<i>MASTER IN FACULTY (ZOOLOGY)</i>	
YEAR 5	It will help students to improve the Agro-Pest relationship, forensic Entomology & its implication it help to conserve the environment & Ecology. Also at the same time students will be equipped to explore jobs in Zoological Research i.e. CTB, CSB, ZSI, WII etc.



{Dr. Vijay Rana}

Programme outcomes (POs):	
Students having Degree in B.Sc. (with Physics) should have knowledge of different concepts and fundamentals of Physics and ability to apply this knowledge in various fields of academics and industry. They may pursue their future career in the field of academics, research and industry.	
PO 1	<ol style="list-style-type: none"> 1. Competence in the methods and techniques of calculations using Mechanics. 2. Students are expected to have hands-on experience to apply the theoretical knowledge to solve practical problems.
PO2	<ol style="list-style-type: none"> 1. Students are expected to have deep understanding of electricity and magnetism. 2. Student should be able to make basic electrical circuits and handle electrical instruments.
PO 3	<ol style="list-style-type: none"> 1. Competence in the concepts of Thermodynamics and Statistical Physics. 2. Students are expected to have hands on experience in Thermal Physics and Statistical Physics Experiments.
PO 4	<ol style="list-style-type: none"> 1 Knowledge of different concepts in Optics. 2 Students are expected to have hands on experience of Experiments of Optics
PO 5	<ol style="list-style-type: none"> 1. Knowledge of basic concepts of Solid State Physics with their applications 2. Students are expected to have an insight in handling electronic instruments.
PO 6	<ol style="list-style-type: none"> 1. Comprehensive knowledge of Analog & Digital Principles and Applications. 2. Learn the integrated approach to analog electronic circuitry and digital electronics for R&D.
Programme specific outcomes (PSOs): <i>UG I Year / Certificate course in Basic Physics</i>	
<p>After completing this certificate course, the student should have</p> <ul style="list-style-type: none"> • Acquired the basic knowledge of Mechanics, Electricity and Magnetism. • Hands-on experience to apply the theoretical knowledge to solve practical problems of basic physical phenomena. He should be able to carry out experiments to understand the laws and concepts of Physics. • An insight in understanding electrical circuits and in handling electrical instruments. 	
Programme specific outcomes (PSOs): <i>UG II Year/ (Diploma in Applied Physics)</i>	
<p>After completing this diploma course, the student should have</p> <ul style="list-style-type: none"> • Knowledge of different concepts in Thermodynamics, Statistical Physics and Optics. • Knowledge of different aspects of Thermal Physics which serves as a basis for many physical systems used in industrial applications and deals with the physics and technology of Engines and Refrigerators. • A deeper insight in Optics to understand the Physics of many optical instruments which are widely used in research and Industry, Optoelectronics, IT and communication devices, and in industrial instrumentation. • Knowledge of basic concepts of optical instruments with their applications in technology. 	

Programme specific outcomes (PSOs): UG III Year / Bachelor of Science	
After completing this degree course, the student should have:	
PSO 1	<i>Knowledge of Mechanics and basic properties of matter. The course will empower him to apply his theoretical knowledge in various physical phenomena that occur in day to day life and he can use this scientific knowledge for the betterment of the society.</i>
PSO2	<i>Understanding of basic concepts related to Electricity and Magnetism. He should be proficient in designing and handling different electrical circuits</i>
PSO3	<i>Expertise in different aspects of Thermal and Statistical Physics which serves as a basis for many physical systems used in industrial applications and deals with the physics and technology of Engines and Refrigerators.</i>
PSO4	<i>Proficient in the field of Optics which will increase his demand in research and industrial establishments engaged in activities involving optical instruments.</i>
PSO5	<i>Basic knowledge in the field of Modern physics, which have utmost importance at both undergraduate and graduate level.</i>
PSO6	<ul style="list-style-type: none"> • <i>Comprehensive knowledge of Analog & Digital Principles and Applications.</i> • <i>Learn the integrated approach to analog electronic circuitry and digital electronics for R&D.</i>

CERTIFICATE COURSE IN BASIC PHYSICS		
Programme: <i>Certificate Course in Basic Physics</i>	Year: I	Semester: I Paper-I
Subject: Physics		
Course Code:	Course Title: Mechanics	

Course Outcomes

1. Understanding of Vector Algebra and Vector Calculus.
2. Understand the physical interpretation of gradient, divergence and curl.
3. Study of gravitational field and potential and understanding of Kepler's laws of Planetary motion.
4. Understanding of different frames of references and conservation laws.
5. Understand the dynamics of rigid body and concept of moment of inertia. Study of moment of inertia of different bodies and its applications.
6. Study the properties of matter, response of the classical systems to external forces and their elastic deformation and its applications.
7. Comprehend the dynamics of Fluid and concept of viscosity and surface tension along with its applications.
8. Understanding the basic idea of waves and oscillations through Simple harmonic motion.

CERTIFICATE COURSE IN BASIC PHYSICS**Programme:** *Certificate Course in Basic Physics***Year: I****Semester: I
Practical****Subject: Physics (Practical)****Course Code****Course Title:** Mechanical Properties of Matter (Practical)**Course Outcomes:**

1. Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the mechanical properties.
2. Measurement precision and perfection is achieved through Lab Experiments.


CERTIFICATE COURSE IN BASIC PHYSICS**Programme:** *Certificate Course in Basic Physics***Year: I****Semester: II
Paper-I****Subject: Physics****Course Code:****Course Title: Electricity and Magnetism**

Course Outcomes:


1. Understanding of Electric Field and Potential. Evaluation of Electric Field and Potential for different types of charge distributions.
2. Study of Electric and Magnetic Fields in matter. Understand the concept of polarizability, Magnetization and Electric Displacement Vector.
3. Study of Steady and Varying electric currents.
4. Understanding of different aspects of alternating currents and its applications.
5. Understand the Magnetostatics, Lorentz Force and Energy stored in magnetic Field.
6. Comprehend the different aspects of Electromagnetic induction and its applications.
7. Understanding the relation between electricity and magnetism.

CERTIFICATE COURSE IN BASIC PHYSICS**Programme:** *Certificate Course in Basic Physics***Year:** I**Semester:** II
Practical**Subject:** Physics (Practical)**Course Code:****Course Title:** Demonstrative Aspects of Electricity & Magnetism (Practical)**Course Outcomes:**

1. Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the electric and magnetic properties.
2. Measurement precision and perfection is achieved through Lab Experiments.



Dr. Satendra Kumar Pandey
Co-ordinator, NAAC/IQAC
P.S.B. Rajkiya Mahavidyalaya
Naugar, Lambgaon



प्राचार्य
फूल सिंह सिंघ
राजकीय महाविद्यालय
लम्बगांव, दिल्ली गढ़वाल