

**CRITERION 3** 

3.2.1 INSTITUTION HAS CREATED AN ECOSYSTEM FOR INNOVATIONS, INDIAN KNOWLEDGE SYSTEM (IKS),INCLUDING AWARENESS ABOUT IPR, ESTABLISHMENT OF IPR CELL, INCUBATION CENTRE AND OTHER INITIATIVES FOR THE CREATION AND TRANSFER OF KNOWLEDGE/TECHNOLOGY AND THE OUTCOMES OF THE SAME ARE EVIDENT

INDIAN KNOWLEDGE SYSTEM (IKS)

2018-2019

2019-2020

2020-2021

2021-2022

2022-2023

CORE CURRICULUM FOR STUDENTS



#### 2018-2019

#### ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

A seminar on the topic "Environment and Sustainable Development – Resilient to Change with a Vision for the Future" was organized by the Department of Computer Science on August 10, 2018, for BCA students. It focused on environmental issues and sustainability, addressing concerns related to climate change, resource conservation, and the future of our planet.



Environment and Sustainable Development – Resilient to Change with a Vision for the Future August 10, 2018

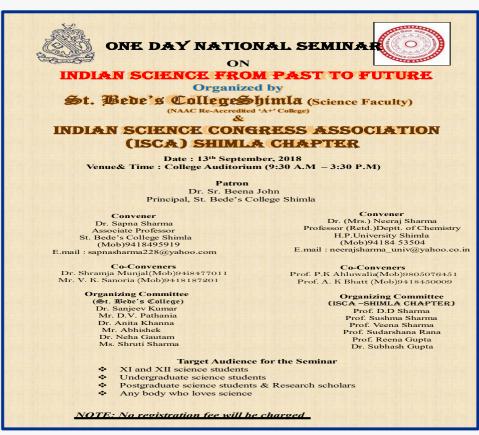
# NATIONAL SEMINAR 'CELEBRATING INDIAN SCIENCE: FROM PAST TO FUTURE'

On 13th September 2018, the Physics department collaborated with the Indian Science Congress Association (ISCA) Shimla Chapter to host a one-day National Seminar titled 'Celebrating Indian Science: From Past to Future'. The objective of the seminar was to provide an opportunity for students to enjoy the wonderful world of science, satisfy their curiosity, and understand how and why certain things happen around us.





National Seminar Entitled Celebrating Indian Science: From Past to Future on September 13, 2018



**Brochure** 



#### **HINDI DIWAS**

Hindi Diwas was celebrated on September 14, 2018, to highlight the importance of the Hindi language and celebrate India's linguistic and cultural diversity.



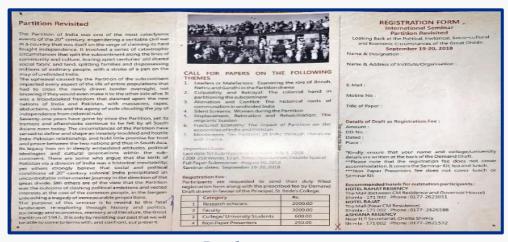
Hindi Diwas Celebration; September 14, 2018

## INTERNATIONAL CONFERENCE 'PARTITION REVISITED'

The ICSSR sponsored International Seminar 'Partition Revisited' took place at St. Bede's College in Shimla on September 19-20, 2018. The event was organized by the Departments of Political Science and History and aimed to delve into the historical, political, and socio-economic impacts of the Partition of 1947.







#### **Brochure**



International Conference Partition Revisited (September 19, 2018 - September 20, 2018)



## "TAKHLEEKI" - AN EXHIBITION

An exhibition titled "Takhleeki" was organized by the History Department in collaboration with the Home Science Department on 8th December 2018. The exhibition provided a platform for showcasing and celebrating the rich cultural heritage of Himachal Pradesh through the display of traditional artifacts.



Takhleeki'' Exhibition December 8, 2018



Takhleeki'' Exhibition December 8, 2018



#### POSTER-MAKING AND PHOTOGRAPHY COMPETITION

On February 26, 2019, Miraasa, the heritage club of the History Department, organized a thought-provoking poster making and photography competition centred around the theme "Our Heritage."



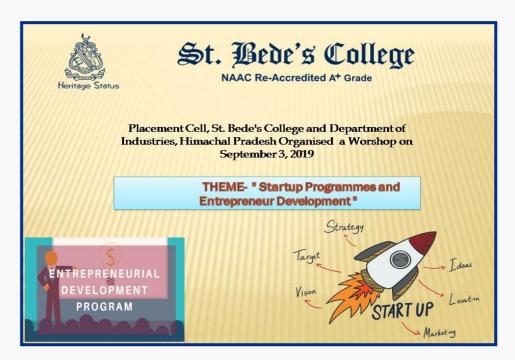
Poster Making and Photography Competition February 26, 2019

2019-2020

# WORKSHOP ON START-UP PROGRAMMES AND ENTREPRENEUR DEVELOPMENT

The Placement Cell and Department of Industries H.P. organized a workshop on "Start-up Programmes and Entrepreneur Development" on September 3, 2019. Students gave presentations on innovative ideas and business tips and information on government initiatives for setting up own entrepreneurial start-ups.





**Brochure** 



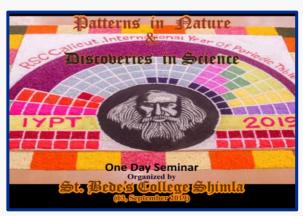


Workshop on Start-up Programmes and Entrepreneur Development on September 3, 2019

## SEMINAR ON "PATTERNS IN NATURE AND DISCOVERIES IN SCIENCE"

The Physics department hosted a one-day seminar entitled "Patterns in Nature and Discoveries in Science" on September 13, 2019 to mark the 150th Anniversary of the Periodic Table of Chemical Elements and celebrate the International Year of the Periodic Table in 2019. The seminar aimed to promote awareness of the history, development, and significance of the periodic table in the field of science.





Brochure



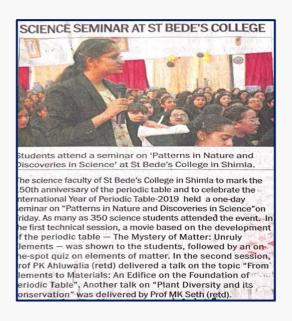






Seminar on Patterns in Nature and Discoveries in Science (September 13, 2019) BACK







# Newspaper Clippings

#### TRADITIONAL FOODS OF HIMACHAL PRADESH

On 24th September 2019, the NSS volunteers visited Govt. Senior Secondary School in Chotta Shimla, where they actively engaged with the students through a Nukkad Natak (street play) and a PowerPoint presentation on Traditional Foods of Himachal Pradesh. hese activities aimed to promote cultural awareness and educate the students about the rich culinary heritage of Himachal Pradesh.







Traditional Foods of Himachal Pradesh, September 24, 2019

## THIRD CHAPTER OF "BHAGAVAD GITA"

On September 26th, 2019, the Departments of Hindi, English, and History collaborated to organize an Inter-Departmental activity centred around the "Third Chapter of Bhagavad Gita." The event aimed to promote a holistic understanding of Indian culture, spirituality, and philosophy.



Third Chapter of Bhagavad Gita, September 26, 2019

## WORLD HERITAGE WEEK

The Heritage Club of St. Bede's College organized a series of engaging activities during World Heritage Week, held from November 19th to November 24th, 2019. The objective of this weeklong celebration was to raise awareness about the significance of preserving our rich cultural heritage and historical monuments.















World Heritage Week, (November 19th to November 24th, 2019)



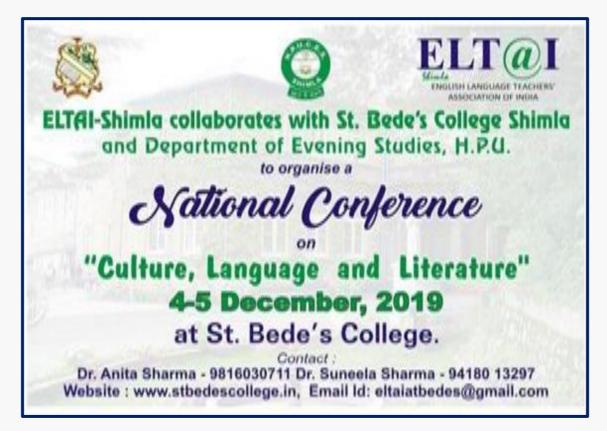


World Heritage Week, (November 19th to November 24th, 2019)

## NATIONAL SEMINAR ON" LANGUAGE, CULTURE AND LITERATURE"

St. Bede's College, in collaboration with the English Language Teachers' Association of India (ELTAI) Shimla chapter, organized a National Conference on 'Culture, Language and Literature.' The conference aimed to promote literature, language and culture and provide a platform for the researchers to showcase their work and to discuss new strategies for enhancement of English language, keeping in view its cultural, political and economic impact in India.





#### **Brochure**

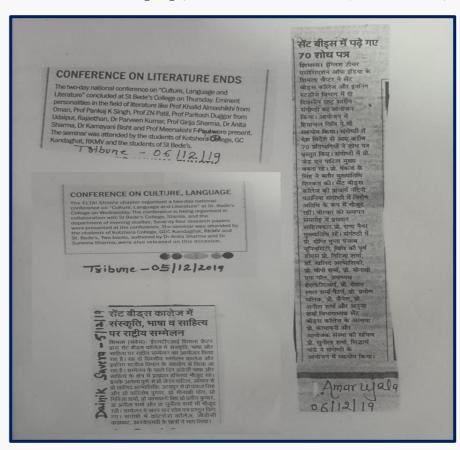


National Seminar on Language, Culture and Literature (December 4-5, 2019)





National Seminar on Language, Culture and Literature (December 4-5, 2019)



National Seminar on Language, Culture and Literature Newspaper Clippings (December 4-5, 2019)



#### ANTARASHTRIYA MATRI BHASHA DIVAS

The Department of Hindi organized a special event to celebrate "Antarashtriya Matri Bhasha Divas" (International Mother Language Day) on February 20, 2020. A special act was performed during the event, conveying the message of "Unity in Diversity" in India. Various inter-ship competitions were also organized, promoting the ideals of International Mother Language Day.



Antarashtriya Matri Bhasha Divas (February 20, 2020)

## NATIONAL SCIENCE DAY CELEBRATION

The National Science Day was celebrated on February 28, 2020, with the theme 'Women in Science' to recognize and celebrate the contributions of women in the field of science.



National Science Day Celebration (February 28, 2020) 2020-2021

#### UNITY IN DIVERSITY

On August 26, 2020, a virtual meeting titled "Unity in Diversity" was organized between St. Xavier's College for Women Aluva, Kerala and St. Bede's College Shimla as part of the 'Ek Bharat Shrestha Bharat' (EBSB) initiative. The aim was to celebrate India's diversity and encourage cultural exchange between the two colleges.



Unity in Diversity (August 26, 2020)

## HINDI DIVAS AND HINDI SAPTAH

The Hindi Department celebrated Hindi Diwas and Hindi Saptah from September 7 -14, 2020. During this week several online activities such as poetry competitions and collage making were conducted by the department to encourage students to showcase their creativity in Hindi.



Hindi Divas and Hindi Saptah; September 7-14, 2020

## **VIVARTHAN**

On September 30, 2020, the EBSB Club of St. Bede's College, Shimla, and St. Xavier's College, Aluva, Kerala came together to celebrate World Translation Day under the event name "Vivarthan." The objective of the event was to promote cultural exchange and promote unity and understanding among students from different regions of India.





Vivarthan (September 30, 2020)

## EK BHARAT SHRESTHA BHARAT CAMP

PO Cadet Chavi Tewari participated in the online Ek Bharat Shresth Bharat (EBSB) camp from October 1, 2020, to October 6, 2020 to learn about the culture of other states and share her Himachal Pradesh culinary heritage.



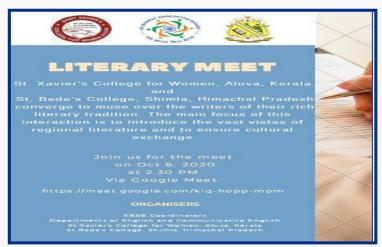


Ek Bharat Shresth Bharat (EBSB) Camp (October 1, 2020, to October 6, 2020)



#### LITERARY MEET

On 6<sup>th</sup> October 2020 Literary Meet was organized by the Department of English at St. Bede's College, Shimla, and the Department of Communicative English at St. Xavier College, Aluva to facilitate a cultural exchange through literature.



Literary Meet October 6, 2020

#### **CULTURAL EXCHANGE**

On October 14, 2020, a Cultural Exchange event took place as part of the Ek Bharath Shrestha Bharath (EBSB) initiative which provided a valuable opportunity for participants from Kerala and Shimla to embrace and admire the cultural diversity and artistic expressions of two States.



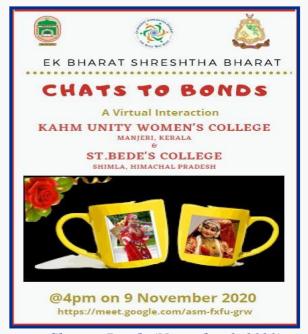


Cultural Exchange Event (October 14, 2020)



#### **CHATS TO BONDS**

On November 9, 2020, St. Bede's College Shimla, Himachal Pradesh, and Kahm Unity Women's College, Manjeri, Kerala, organized a virtual interactive session titled "Chats to Bonds" on Google Meet. The main objective of the session was to promote cultural exchange and develop bonds between the students at both colleges.



Chats to Bonds (November 9, 2020)

## **JASHN-E-MIRAS**

During 'Heritage Week 2020,' the Heritage Club of St. Bede's College, Miraasa, organized a series of competitions from December 14th to December 18th, 2020, to commemorate and celebrate India's rich cultural heritage.



Heritage Week (December 14th to December 18th, 2020)







Heritage Week (December 14th to December 18th, 2020)



#### REPUBLIC DAY

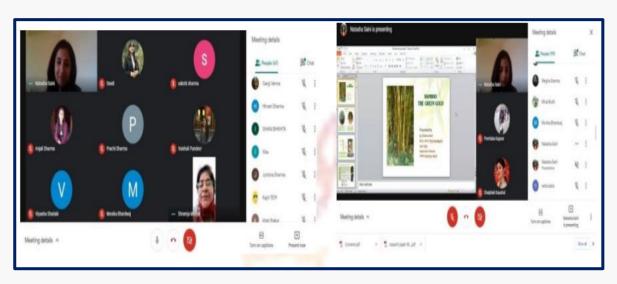
On January 26, 2021, cadets celebrated Republic Day by organising various activities online to exhibit India's rich heritage, featuring patriotic songs, dances, and inspirational poems. Motivational presentations highlighted the nation's achievements, contributions of notable figures, and success stories, instilling optimism.



Republic Day (January 26, 2021)

## **BAMBOO-THE GREEN GOLD OF INDIA**

A lecture on "Bamboo - The Green Gold of India" was organised on February 28, 2021, that revolved around bamboo's ecological importance, its role in sustainable development, its applications in various industries (e.g., construction, textiles, paper, furniture), and its potential for rural livelihoods and economic growth. It contributed to the broader conversation on sustainable development and green initiatives.



Bamboo - The Green Gold of India (February 28, 2021)



#### **EBSB CAMP**

Cadet Jaisal Shekhawat attended the online EBSB camp from 22nd-27th March 2021. The primary goal of the EBSB camp was to facilitate interactions and learning opportunities for NCC cadets regarding the diverse aspects of culture, traditions, languages, cuisines, sports, and best practices of paired states.



EBSB Camp March 22-27, 2021

#### **HIMACHAL DAY PARADE**

NCC cadets volunteered for the Himachal Day parade on April 6, 2021. The practices were held at the Government school, Chaura Maidan. Out of 11 cadets, 7 were selected to be a part of the final contingent for the Himachal Day Parade.

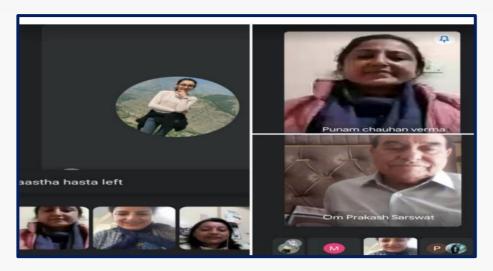


Himachal Day Parade (April 6, 2021)



## INTRODUCTION TO BHAGAVAD-GITA

On April 9, 2021, an inter-disciplinary webinar titled "Introduction to Bhagavad-Gita with Special Reference to Chapter IV" was organized jointly by the departments of Hindi, History, and English to introduce the participants to the teachings and philosophical insights presented in Chapter IV of the Bhagavad-Gita.



Introduction to Bhagavad-Gita (April 9, 2021)

## **EBSB CAMP**

PO Cadet Arundhati Chandel attended the online EBSB camp from 12th-17th April 2021 that was held between PHHPC and Gujarat directorate. She presented and delivered a PPT on the topic 'Ban single use plastic'. She also participated in the quiz competition and scored 38th rank in the competition.

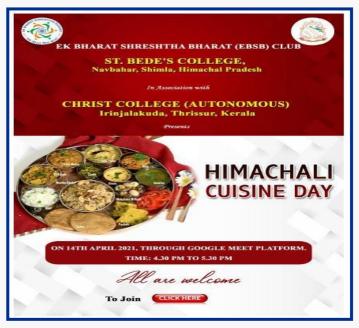


EBSB Camp (April 12-17, 2021)



#### HIMACHALI CUISINE DAY

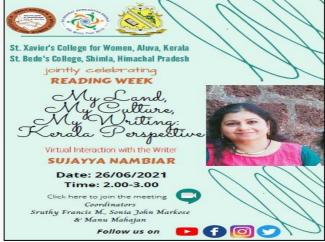
On April 14, 2021, the EBSB (Ek Bharath Shrestha Bharath) club of St. Bede's College in Shimla, Himachal Pradesh, collaborated with Christ College in Thrissur, Kerala, to celebrate Himachali Cuisine. The event aimed to introduce the delicious food of Himachal Pradesh to the students at Christ College.



Himachali Cuisine Day (April 14, 2021) 2021-2022

#### READING WEEK

On June 26, 2021, the event "My Land, My Culture, My Writing: Kerala Perspective" introduced students to Malayali author Ms. Sujayya Nambair, offering insights into her writing journey.



Reading Week Activity (June 26, 2021)



#### **EBSB PHASE VIII CAMP**

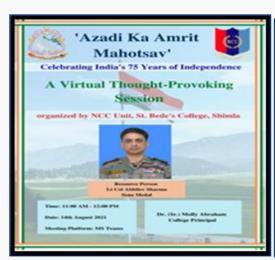
From July 19 to 27, 2021, an online Ek Bharat Shreshtha Bharat (EBSB) camp Phase 8, held in collaboration with Odisha Directorate, provided a platform for Cadet Maanika Sethi to represent her home state of Himachal Pradesh.



Ek Bharat Shreshtha Bharat (EBSB) Camp Phase 8 (July 19 to 27, 2021)

## INDEPENDENCE DAY CELEBRATION

On August 14, 2021, the NCC unit at St. Bede's College, Shimla, organized a virtual Thought-Provoking Session to commemorate India's 75th Independence Day, to pay tribute to India's hard-fought struggle for freedom.





Virtual Thought-Provoking Session (August 14, 2021)



## INDEPENDENCE DAY CELEBRATIONS

On August 15, 2021, the NSS (National Service Scheme) unit of St. Bede's College marked the 75th Independence Day of India with a solemn flag hoisting ceremony and an engaging and cultural event, showcasing the participation of NSS volunteers. This celebration provided the volunteers with a platform to express their deep love for the country and to exhibit their diverse talents.



Independence Day Celebrations (August 15, 2021)



Independence Day Celebrations (August 15, 2021)



#### **WEBINAR**

On 23rd September 2021, a webinar was organized in a hybrid mode, both online and offline, under the theme "Azadi ka Amrut Mahotsav - Science and Technology: India @75" in collaboration with the Indian Science Congress Association (ISCA) Shimla-Chapter to create awareness among the participants about the initiatives taken by the Indian government to promote scientific research and innovation.

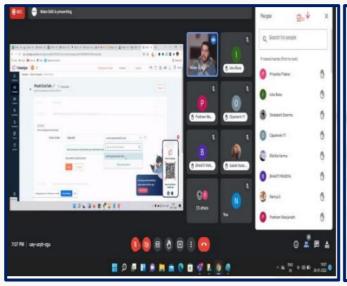


Hybrid Mode Webinar - Science and Technology: India @75 (September 23, 2021)

## AZADI KA AMRUT MAHOTSAV Technology @75

The Department of Computer Science at St. Bede's College in Shimla celebrated "AZADI KA AMRUT MAHOTSAV Technology @75" from October 4th to 9th, 2021.







AZADI KA AMRUT MAHOTSAV Technology @75" (October 4th to 9th, 2021)

## **EBSB PHASE XI**

From October 18-23, 2021, an online EBSB (Ek Bharat Shreshtha Bharat) Phase XI exchange programme was organized by Karnataka and Goa Directorate on behalf of the Shimla group. The objective of the online EBSB Phase XI exchange program was to promote national integration and personal skill enhancement through cultural exchange and collaboration.



EBSB (Ek Bharat Shreshtha Bharat) Phase XI (October 18-23, 2021)



## HERITAGE WEEK

The Heritage Club of St. Bede's College celebrated World Heritage Week from November 19-25, 2021, by organizing a series of engaging activities aimed at raising awareness about the importance of preserving and appreciating our rich cultural heritage.



World Heritage Week (November 19-25, 2021)



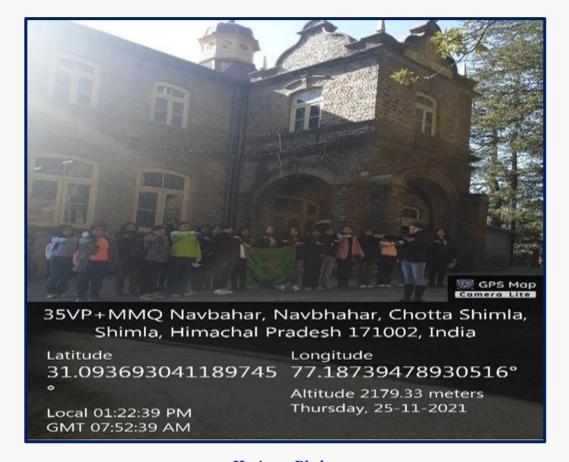


# Rangoli Making Competition Entries



Folk Singing Competition





## Heritage Pledge



Heritage Walk





Photography Competition Entries

## FOLK SONG COMPETITION

On November 23, 2021, the Department of Music, in collaboration with the Heritage Club, organized a folk song competition to celebrate and showcase the traditional richness of Indian Folk Music through the performances of the participants.



Folk Song Competition (November 23, 2021)

## TALK ON "PSYCHOLOGY-THE INDIAN HERITAGE"

The special talk on "Psychology - The Indian Heritage" organized by the Psychology department on November 24, 2021, aimed to explore the rich history and contributions of Indian psychologists.







Talk on "Psychology - The Indian Heritage (November 24, 2021)

## ADVANCEMENTS IN BIOTECHNOLOGY

The peer discussion on 'The Advancements in Biotechnology in 75 years of India's Independence,' held on December 1, 2021, encouraged students to stay informed about the latest developments in biotechnology, which is crucial for future biotechnologists and researchers.



Advancements in Biotechnology (December 1, 2021)

## **DECLAMATION COMPETITION**

On December 3, 2021, the Department of Political Science, in collaboration with the Electoral Literary Club of the College, organized a Declamation Competition with the aim of reaching out to the young generation and raising awareness about the significance of elections.



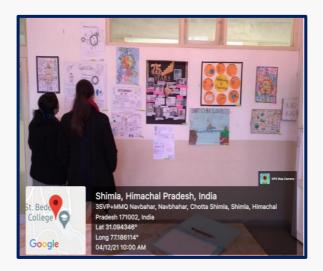




Declamation Competition (December 3, 2021)

## CONTRIBUTIONS OF BIOTECHNOLOGY

The poster-making competition on 'Biotechnology: India @ 75' organized by the Department of Biotechnology on December 4, 2021, celebrated the contributions of biotechnology to India's growth and development since independence.



Poster-making Competition on 'Biotechnology: India @ 75' (December 4, 2021)

#### NATIONAL YOUTH FESTIVAL

On January 11, 2022, the cadets celebrated the 25th National Youth Festival, a four-day event inaugurated by Prime Minister Narendra Modi. The festival encompassed various activities, including Yoga and Cultural exchange, with a clear set of objectives in mind.

Link for YouTube: <a href="https://youtu.be/vi3Is3\_pQms">https://youtu.be/vi3Is3\_pQms</a>



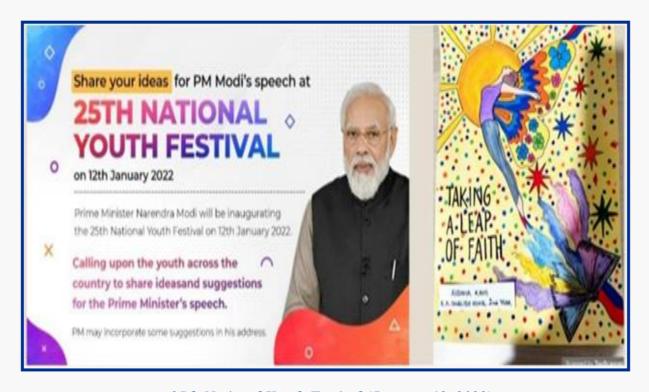




25th National Youth Festival (January 11, 2022)

## NATIONAL YOUTH DAY CELEBRATION

On January 12, 2022, the NSS (National Service Scheme) celebrated the 25th National Youth Festival, inaugurated by the honourable Prime Minister Narendra Modi in Puducherry. The festival revolved around the theme "It's all in the mind," emphasizing the pivotal role of youth in shaping the nation's future.



25th National Youth Festival (January 12, 2022)





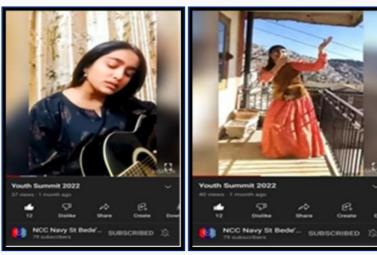
25th National Youth Festival (January 12, 2022)

## **CULTURAL CELEBRATIONS (PHASE-IV)**

On January 15, 2022, the cadets from St. Bede's College, Shimla, came together for a special event during Phase-IV of the National Youth Festival, to pay homage to the rich and vibrant culture of Himachal Pradesh by presenting the traditional dance, Natti.

**Link for YouTube Video:** https://youtu.be/Odb9roB7Mmo

https://youtu.be/ZftP51txpAk https://youtu.be/UevluBhr5ok



25th National Youth Festival (January 15, 2022)



## DIRECTORATE LEVEL COMPETITIONS

On January 31, 2022, the cadets from St. Bede's College actively engaged in various activities under the banner of "Azaadi ka Amrit Mahotsav," with a primary objective of instilling a sense of patriotism.



Azaadi ka Amrit Mahotsav (January 31, 2022)

#### DIRECTORATE LEVEL COMPETITIONS

On February 2, 2022, the cadets from St. Bede's College, Shimla, engaged in various activities as part of the "Azaadi ka Amrit Mahotsav" theme, organized by the Ministry of Culture nationwide. These activities encompassed Desh Bhakti Geet Writing, Rangoli Making, and Patriotic Lori Writing.

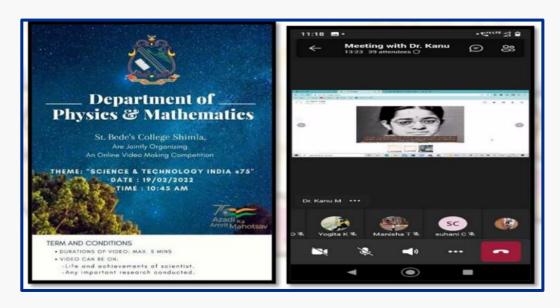


Azaadi ka Amrit Mahotsav (February 2, 2022)



#### VIDEO MAKING COMPETITION

On February 19, 2022, as part of the "Azadi ka Amrut Mahotsav" celebrations, the Departments of Physics and Mathematics jointly organized a Video Making Competition to showcase their creative talents and pay tribute to renowned scientists.



Video Making Competition (February 19, 2022)

## ROLE PLAY ON THE THEME "PIONEER WOMEN IN INDIAN HISTORY"

An engaging role-play competition centred around the theme of "Pioneer Women in Indian History" was organized by the Departments of Economics and History as part of the celebration of International Women's Day on March 8, 2022.



Pioneer Women in Indian History'' (March 8, 2022)



## **GUEST LECTURE ON SOCIAL JUSTICE**

On March 14, 2022, the Department of Political Science organized a special lecture on the theme of 'Social Justice.' to make students aware of complexities of social justice and its application in the Indian politics.



Lecture on 'Social Justice (March 14, 2022)

#### NUKKAD NATAK

On March 14, 2022, the Department of Political Science and Economics at St. Bede's College organized a Nukkad Natak event to raise awareness and sensitize students about gender equality, women's rights, and the challenges faced by women in society.



Nukkad Natak (March 14, 2022)



## HUMAN VALUES', 'CORPORATE SOCIAL RESPONSIBILITY', BUSINESS ETHICS' AND 'SUSTAINABLE DEVELOPMENT AND CLIMATE CHANGE'

On March 23, 2022, an inter-departmental activity was jointly organized by the Commerce and Management Department in collaboration with the Economics Department in which students delivered presentations on pressing issues like Climate Change, Corporate Social Responsibility and Business Ethics, Sustainable Development Goals and underscored the collective responsibility to safeguard the environment for future generations.



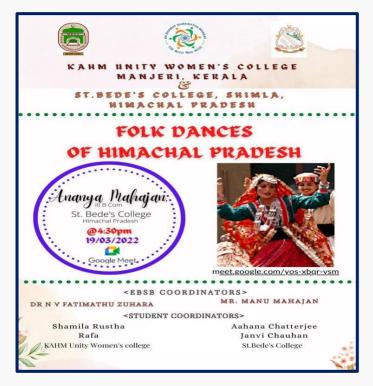
Human Values', 'Corporate Social Responsibility', Business Ethics' and 'Sustainable Development and Climate Change' (March 23, 2022)

## FOLK DANCES OF HIMACHAL PRADESH

**Google Meet:** meet.google.com/yos-xbqr-vsm

On March 19, 2022, St. Bede's College, Shimla organized an online presentation on the topic "Folk Dances of Himachal Pradesh" under the Ek Bharat Shreshtha Bharat initiative. The presentation aimed to showcase and celebrate the traditional folk dances of Himachal Pradesh, highlighting their cultural significance and importance.

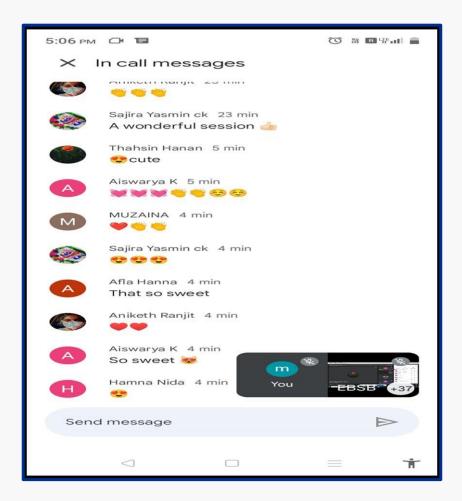




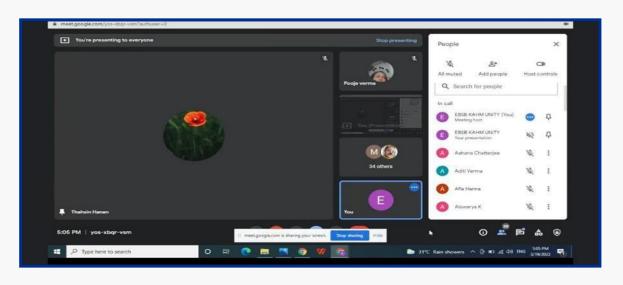


Folk Dances of Himachal Pradesh (March 19, 2022)



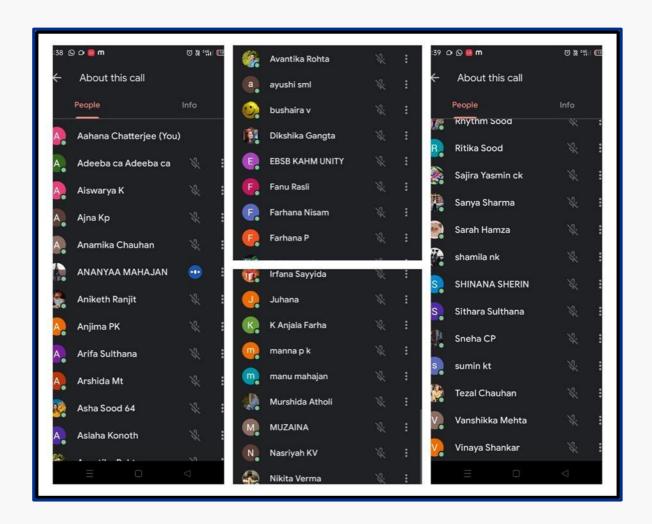


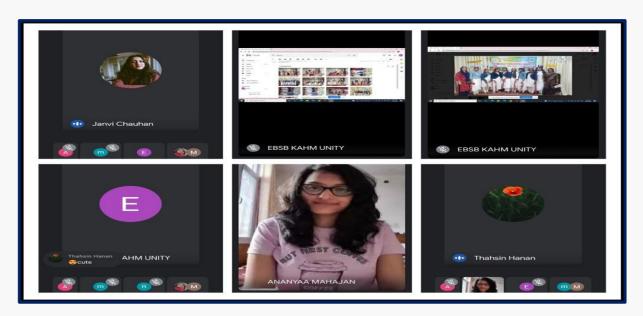
Participants Attending the Webinar



St. Bede's College Shimla and Kahm Unity Women's College







**Kerala Students Interaction** 



#### 2022-23

#### **EBSB CAMP**

Cadet Manisha Sharma participated in the 'Ek Bharat Shreshtha Bharat' Camp, from June 4 to June 14, 2022, in collaboration with the Bihar and Jharkhand Directorate and held in Malout, Punjab. It aimed to enhance their institutional training, preparing them for higher-level camps such as Centrally Organized Camps (COC) and Republic Day Camp (RDC).



Ek Bharat Sreshtha Bharat Camp at Malout, Punjab (June 4 to June 14, 2022)

## CELEBRATION OF INTERNATIONAL YOGA DAY

Under the auspices of the Ministry of Aayush and as part of the Azadi ka Amrit Mahotsav, the Department of Physical Education and NSS Unit of St. Bede's College, Shimla celebrated International Yoga Day on June 21, 2022, with the theme "Yoga for Humanity." The college organized a series of activities both online and offline to commemorate this important day.













International Yoga Day (June 21, 2022)



## INDEPENDENCE DAY CELEBRATION

On August 12, 2022, the NSS (National Service Scheme) unit of St. Bede's College organized a vibrant rally to commemorate the momentous occasion of 75 years of Indian Independence, in line with the theme of "Azadi ka Amrit Mahotsav.



Independence Day Celebration (August 12, 2022)

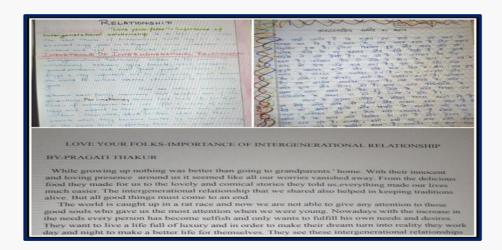


Independence Day Celebration (August 12, 2022)



## INTERNATIONAL YOUTH DAY

On August 12, 2022, in celebration of International Youth Day, Miraasa, the heritage club of St. Bede's College, organized an online Inter-College essay writing competition with the theme "Love your folks - Importance of Intergenerational relationships." Students from various colleges participated in the competition, showcasing their writing skills and perspectives on intergenerational relationships.





International Youth Day (August 12, 2022)



## DISTRICT LEVEL INDEPENDENCE DAY CELEBRATION

On August 15, 2022, 14 cadets from St. Bede's College, Shimla, marched on The Ridge in Shimla during the District-Level Independence Day celebrations.



District-Level Independence Day Celebrations (August 15, 2022)

## HINDI WEEK CELEBRATION

Hindi Week was celebrated by the Hindi Department from 07 September to September 14 2022.



Hindi Week Celebration (September 7- 14, 2022)



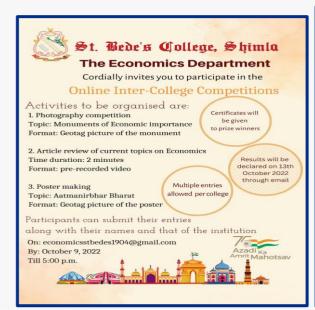


Hindi Week Celebration (September 7- 14, 2022)

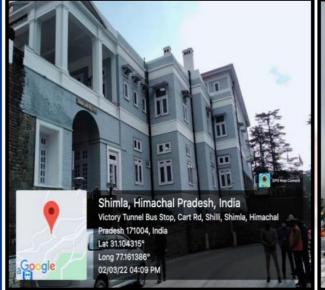
## PHOTOGRAPHY COMPETITION'

The Inter-College Online competitions aligned with the principles of "Atamnirbhar Bharat" organized by the Economics Department from 1st October 2022 to 9th October 2022 provided a unique platform for students from various colleges to showcase their creativity, critical thinking, and knowledge in the field of economics.











Inter-College Online Competition (1st October 2022 to 9th October 2022)

## **BHARAT KI VEERANGANAEN**

On 04 November 2022, under 'Azadi ka Amrit Mahotsav', a painting competition was organized by the Hindi Department on 'Bharat Ki Veeranganaen'. The activity was organized to highlight the contribution made by the women freedom fighters in the struggle for the freedom of the country.





'Bharat Ki Veeranganaen' November 4, 2022

## **HERITAGE WEEK**

Miraasa, the heritage club of St. Bede's College, celebrated World Heritage Week from November 19 to 25, 2022, with a series of engaging activities to honour and promote India's rich cultural heritage.



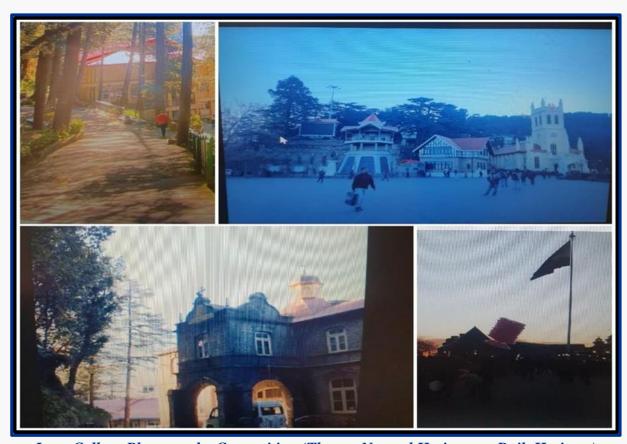


World Heritage Week (November 19 to 25, 2022)





World Heritage Week (November 19 to 25, 2022)

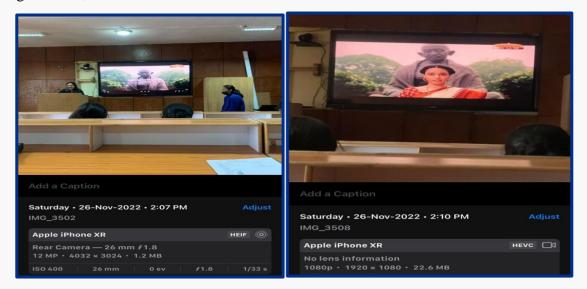


Inter College Photography Competition (Theme: Natural Heritage or Built Heritage)



## REEL THE VERSE 'NATIONAL CONSTITUTION DAY'

On November 26, 2022, the Department of Political Science, in collaboration with the 'After Thoughts' Club, commemorated the creation of the Indian Constitution.



National Constitution Day (November 26, 2022)

## CULTURAL REPRESENTATION DEPICTING UNITY IN DIVERSITY

The event 'Cultural Representation Depicting Unity in Diversity' organized by the English Department of St. Bede's College on December 8, 2022, celebrated the rich cultural diversity of India, aligning with the Azadi Ka Amrit Mahotsav initiative.



'Cultural Representation Depicting Unity in Diversity' (December 8, 2022)



#### NATIONAL MATHEMATICS DAY

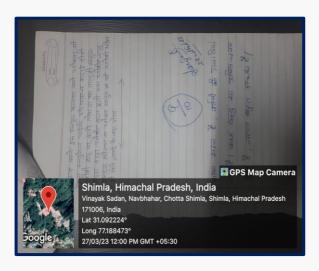
Celebrating National Mathematics Day on December 22, 2022, in honour of the renowned Indian mathematician Srinivasa Ramanujan aimed to promote mathematics and pay tribute to Ramanujan's remarkable contributions to the field. Learning about Vedic Mathematics and Ramanujan's methods enriched students' mathematical knowledge and contributed to enhancing students' mathematical skills.



National Mathematics Day; December 22, 2022

## INTERNATIONAL MOTHER LANGUAGE DAY

International Mother Language Day was celebrated by the Hindi Department on 21 February 2023. On this occasion, the students were encouraged to participate in a short-story writing competition in their respective regional dialects under the theme- 'Bahubhasgi Shiksha- shiksha ko badalne ki awashyakta'.



International Mother Language Day (February 21, 2023)



#### MOCK INDIAN PARLIAMENT SESSION

On March 2, 2023, the Department of Political Science, in collaboration with the Model United Nations society of the college, organized a Mock Indian Parliament session. The topic chosen for the session was the "Citizenship Amendment Bill."





Mock Indian Parliament (March 2, 2023)

## MEDICINAL PLANTS AND THEIR USES

The interactive session organized on March 3rd, 2023, by the Botany Department in collaboration with the History Department focusing on medicinal plants, combined botanical knowledge with historical insights, contributing to a well-rounded understanding of the subject matter.



Medicinal Plants and their Uses (March 3rd, 2023)



## INTERNATIONAL SEMINAR ON THE THEME OF "TRANSFORMATION OF INDIA @75

On March 3rd and 4th, 2023, the Department of Economics and Commerce and Management at St. Bede's College in Shimla hosted an ICSSR sponsored International Seminar on the "Transformation of India @ 75" to provide a platform for experts to engage in discussions about the challenges and opportunities facing India.

https://www.stbedescollege.in/wp-content/uploads/2023/03/Proceedings-of-the-international-seminar-for-website.pdf





(International Seminar on the "Transformation of India @75 March 3-4, 2023)



## "THE INTERSECTION OF ECONOMICS AND HISTORY: EXPLORING INDIA'S ECONOMIC JOURNEY"

A PowerPoint presentation competition was organised on 16th of March 2023, jointly by the Department of Economics and the Department of History to explore into India's economic history, particularly focusing on the period before Independence, and highlighting the impact of British colonial rule on the Indian economy.







The Intersection of Economics and History: Exploring India's Economic Journey (March 16, 2023



# PARTICIPATION IN AN INTERNATIONAL SEMINAR ON HIMALAYAN HISTORY, ART, CULTURE, ARCHAEOLOGY, PALEOENVIRONMENT

The students of History Department attended an International Seminar on Himalayan history, art, culture, archaeology, and paleoenvironment, held by the State Museum, Shimla on March 18, 2023 to understand the history, culture, and environment of the Himalayan region.





International Seminar on Himalayan History, Art, Culture, Archaeology, and Paleoenvironment, (March 18, 2023)



## NATIONAL SEMINAR ON "BUILDING A RESILIENT FUTURE: INTEGRATING ENVIRONMENT, ECONOMY AND TECHNOLOGY"

The department of Geography organized a two-day national seminar on "Building a Resilient Future: Integrating Environment, Economy, and Technology" on March 24-25, 2023 to combine the three pillars of sustainable development - Economy, Environment, and Society (Technology).

https://www.stbedescollege.in/wp-content/uploads/2023/05/PROCEEDINGS-OF-NATIONAL-SEMINAR-ON-BUILDING-A-RESILIENT-FUTURE-24-25-March-2023-Geog.pdf

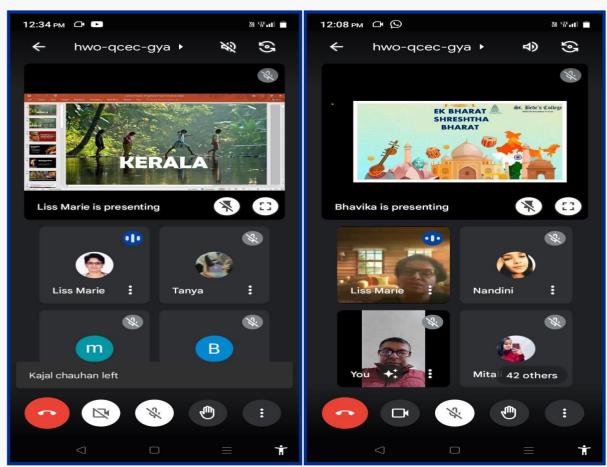


National Seminar on Building a Resilient Future: Integrating Environment, Economy, and Technology (March 24-25, 2023)

## **CULTURAL MEET**

On March 24, 2023, students from St. Bede's College and St. Xavier's College for Women in Aluva, Kerala came together for an online Cultural Meet as part of the EBSB program. The language exchange component allowed students to appreciate the linguistic diversity of India.







Cultural Meet (March 24, 2023)



## INTERDEPARTMENTAL ACTIVITY ON "JAGO GRAHAK JAGO" AND "CONSUMER AWARENESS" AND "CHILD MARRIAGE" AWARENESS

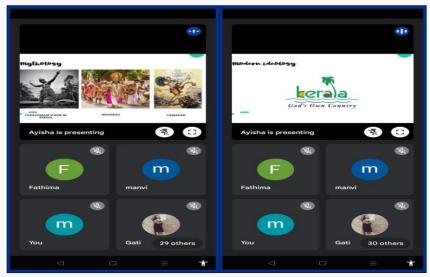
On 27th March 2023, the Department of Economics organised an interdepartmental activity, in collaboration with the departments of BBA, BCA, and B.Com on "Consumer Awareness," as well as "Child Marriage" awareness.



Jago Grahak Jago'' and ''Consumer Awareness,'' and ''Child Marriage'' Awareness (March 27, 2023)

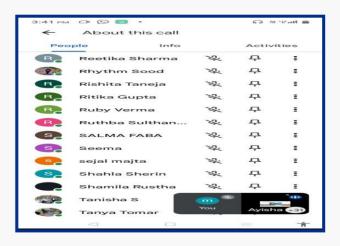
#### CULTURAL EXCHANGE PROGRAM

On April 6, 2023, students from St. Bede's College, and KAHM Unity Women's College in Kerala came together for a virtual cultural exchange program as part of the Ek Bharat Shrestha Bharat initiative.



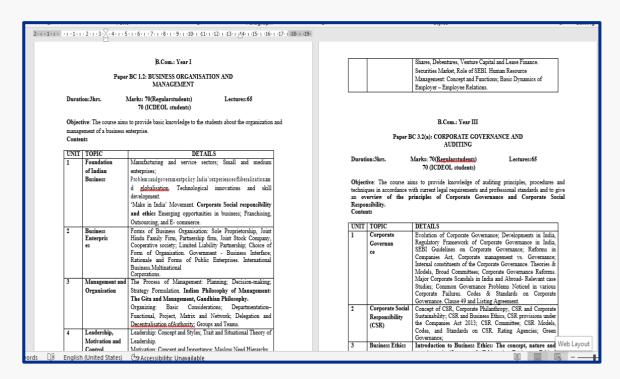
Cultural Exchange Program (April 6, 2023)





Cultural Exchange Program (April 6, 2023)

#### **CORE CURRICULUM FOR STUDENTS**



Core Curriculum for Students (B.Com Ist and IIIrd year)



4 Introduction to Auditing	Introduction, Meaning, Objectives, Basic Principles and Techniques; Classification of Audit, Audit Planning, Internal Control – Internal Check and Internal Audit; Audit Procedure – Vouching and verification of Assets & Liabilities.	BBA 304 INDIA'S DIVERSITY AND BUSINESS (Generic Elective-III)  Objective.:  The objective of the paper is to understand the bases of India's diversity and its linkages with the people, livelihood, occupational diversity and socio-economic challenges. Further, it aims at understanding the diversity and its implications for the business.
5 Company Audit & Special Areas of Audit	Audit of Limited Companiesr-Company Auditor-Qualifications and disqualifications, Appointment, Rotation, Removal, Remureation, Rights and Duties.  Auditor's Report-Contents and Types. Liabilities of Statutory Auditors under the Companies Act2013.  Special Areas of Audit: Special features of Cost audit, Tax audit, and  Management audit; Auditing Standards.	Unit I  Recognizing, Accommodating and valuing diversity Challenges and dilemmas posed by diversity and drive for homogenization; Sources of dilemma and tension—immigration, competition for limited resources; Regional bases of India's diversity: regional approach to understanding diversity in terms of India's topography, drainage, soil, climate, natural vegetation, rural and urban settlements. Social diversity in India: Peopling, demography, languages, castes, ethnicity, religions, sects, family, kinship and social institutions; socio-cultural region.  Unit 2  People, Livelihood and Occupational Diversity Traditional livelihoods and their nature - agriculture, crafts, industry and services; Regiona, occupation and employment.  Unit 3  Linkages between Diversity and India's Socio-economic challenges Regional variations in terms of geographic and socio-economic factors- trends and emerging options; Food insecurity, economic inequalities and poverty, environmental degradation and sustainable development;  Unit 4  Diversity and Business, Indian Consumers and marketing; Rural and Urban context Diversity, manufacturing, industry and services; Diversity and Innovation; Work force diversity and Management.

## Core Curriculum for Students (BBA Generic Elective)



Core Curriculum for Students (BA History Ist year)

#### B. A. SECOND YEAR (SEC IV) SEC-2: HIST (A) 216 Crafts and Artisans: Living Traditions

Stone carvings: traditional stone carvers, architects and sculptors—a study of Mahabalipuram temple (Tamil Nadu), Dilwara temple (Rajasthan) and Masrur temple (Kangra)

Painting: Madhubani and Kangra

- II. Metal crafts: Bidari, Dokra, Chola bronzes; ivory, gems and jewellery
- III. Woodwork, weaving and basketry: Northeastern India
- IV. Textile and carpet weaving: Banarasi, Patola, Bandhni, Kanjeevaram and Bhadohi

A visit/field work/survey of/to a craft exhibition/ museum/art gallery/ cottage industry (the best nearby) is part of this course. Total weightage & distribution of marks for evaluation of the field report/survey would be at par with tutorial/home assignments.

#### Recommended Books

- Chattopadhyay, K., India's Craft Tradition, Delhi, 1980.
   Dhamija, J. and J. Jain, Hand Woven Fabrics of India, Middle Town NJ, 1989.
   Dwivedi, V.P., Indian Ivories, Delhi, 1976.
   Hargrews, H., "The Monolithic Temples of Masroor', ASI AR, 1915-1916,pp. 39-48.
   Jain, Jyotindra (ed.), Other Masters: Five Contemporary Folk and Tribal Artists of India, Nav. Delhi, 1969.

- Jain, Jyotindra (ed.), Other Masters: trive Contemporary Folk and Tribal Artists of India, New Delhi, 1998.
   Jaitley, J., The Crafts Traditions of India, New Delhi, 1990.
   Jayakar, Pupul, The Earthen Drum, New Delhi, 1980.
   Nanavati, J.M., M.P. Vora and M.A. Dhaky, The Embroidery and Beadwork of Kutch and Saurashtra, Baroda, 1966.
- 9. Stronge, S. (ed.), A Golden Treasury, Jewellery from the Indian Sub-continent, London, 1989.

Core Curriculum for Students (BA History IInd year)



#### B. A. THIRD YEAR (SEC V) SEC-3: HIST (A) 317 Indian History and Culture

Environment; Culture, Tradition & Practices:

Historical overview

Oral & codified information on medicinal Plants

Water & Water Bodies

Urbanization and Urbanism:

Issues of settlements & Landscapes

Social differentiations

Communication networks

III. Social inequality and Gender:

Status within Households: An overview

Present context

Issues of Violence

Employment, distribution of resources

IV. Cultural Heritage:

**Built Heritage** 

Fairs & Festivals

A visit/field work/survey of/to an exhibition /water bodies/ local fairs & festivals/ is part of this course. Total weightage & distribution of marks for evaluation of the field report/survey would be at par with tutorial/home assignments.

#### Recommended Books

- Banga, Indu (ed.), The City in Indian History: Urban Demography, Society & Polity,
- Bhattacharya, Bimalendu, Urban Development in India: Since Pre-Historic Time,
- Darjeeling, 2006. Chaudhary, R. R., *Traditional Medicine in Asia*, New Delhi, 2002.
- Chaudhary, R. R., Iraditional Medicine in Asid, New Delhi, 2002.
   Koch, E. Mughal, Art & Imperial Ideology, New Delhi, 2001.
   Kumar, Radha, History of Doing: An Illustrated Account of Movements for Women's Rights & Feminism in India, 1880-1990, Delhi, 2007.
   Maity S. K., Cultural Heritage of Ancient India, New Delhi, 1983.
   N.Mehta (ed.), Television in India, New York, 2008.

Core Curriculum for Students (BA History IIIrd year) SEC V



## B. A. THIRD YEAR (SEC VI) SEC-4: HIST (A) 319 Introduction to Indian Art

- Understanding key terms in art appreciation: art, craft, sculpture, relief, painting, miniature, mural, fresco, rangoli, folk art
- II. Indian Sculpture

Iconography: Hindu, Buddhist and Jaina

III. Architecture

Temple architecture: Nagara, Dravida and Vesara

Mosques and Mausoleums: Qutb Complex; Humayun's tomb; Jama Masjid; Taj

Rock-Cut Temple of Masrur and Colonial architecture in Shimla

IV. Indian Painting: understanding it historically

Mural painting: Ajanta

Mughal: miniature styles

Pahari School of Painting: Guler-Kangra Paintings

A visit/field work/survey of/to a temple/ mosque & mausoleum /museum/ art gallery/ important architectural site (the best nearby) is part of this course. Total weightage & distribution of marks for evaluation of the field report/survey would be at par with tutorial/home assignments.

#### Recommended Book

- Agarwal, V.S., Indian Art, Varanasi, 1972. (Also available in Hindi)

- Anand, Mulk Raj, Splendours of Himachal Heritage, New Delhi, 1997.

  Asher, Catherine, Architecture of Mughal India, Cambridge, 1992.

  Beach, M.C., The New Cambridge History of India: Mughal and Raiput Painting, Delhi, 1992.
  Bleach,M. C., Early Mughal Painting, Boston, 1987.

- Bleach, M. C., Early Mughal Painting, Boston, 1987.
   Brown, Percy, Indian Architecture (Islamic Period), Bombay, 1981.
   Dehejia, V., Looking Again At Indian Art, New Delhi, 2012.
   Dhar, P.P. (ed.), Indian Art History Changing Perspectives, New Delhi, 2011.
   Fergusson, James, A History of Indian and Eastern Architecture, New Delhi, 1972.
   Goswamy, B.N., Essence of Indian Art, San Francisco, 1986.
   Goswamy, B.N., Pahari Master: Court Painter of Northern India, Delhi, 2000.
   Goswamy, B.N., Nainsukh of Guler: A Great Indian Painter from a Small Hill-state, New Delhi 2011.

- New Delhi, 2011.
- Goswamy, B. N., Nala and Damayanti: A Great Series of Paintings of an Old Indian Romance, New Delhi, 2015.

Core Curriculum for Students (BA History IIIrd year) SEC VI



32 B. A. SECOND YEAR (SEC I) SEC-1: HIST (A) 213 Historical Tourism Defining tourism & heritage Art and architecture in India: an overview Understanding built heritage Temple architecture: Kandariya Mahadeva temple Khajuraho Stupa architecture: Sanchi Indo-Persian architecture: Taj Mahal, Agra; Red Fort, Delhi III. Temple architectures in Himachal Pradesh as tourist attractions: A study of Chamba Kangra and Mandi Colonial architecture: Shimla IV. Tourism in Himachal Pradesh Popular tourist destinations: Shimla, Kullu-Manali & beyond A visit/field work/survey of/to a heritage/ historical/ popular tourist destination/socio-cultural importance site (the best nearby) is part of this course. Total weightage & distribution of marks for evaluation of the field report/survey would be at par with tutorial/home assignments. assignments.

Recommended Books

1. Agarwal, V.S., Indian Art, Varanasi, 1972. (Also available in Hindi)

2. Barr, Pat and Ray Desmond, Simia: A Hill Station in British India, London, 1978.

3. Bernier, Ronald M., Himalquya Horbitecture, London, 1997.

4. Bhowmik, S. K., Heritage Management: Care, Understanding & Appreciation of Cultural Heritage, Jaipur, 2004.

5. Brown, Percy, Indian Architecture, Bombay, 1940.

6. Desai, Devangana, The Religious Imagery of Khajuraho, Mumbai, 1997.

7. Ghosh, B., Tourism and Travel Management. New Delhi, 1998.

8. Goetz, Hermann, The Early Wooden Temples of Chamba, Leiden, 1955.

9. Handa, O. C., Temple Architecture of the Wastern Himalayu: Wooden Temples, Delhi, 2001.

10. Harle, J., The Art and Architecture of the Indian Subcontinent, London, 1994. 2001.

Harle, J., The Art and Architecture of the Indian Subcontinent, London, 1994.

Harle, J., The Art and Architecture of the Indian Subcontinent, London, 1994.

Howard, Peter, Heritage: Management, Interpretation, Identity, London, 2003.

Kanawar, Pamela, Imperial Shimia: The Political Culture of the Ray, Delhi, 1990.

Kanawar, Pamela, Imperial Shimia: The Political Culture of the Ray, London, 1996.

Mian, Goverdhan Singh, Wooden Temples of Himachal Pradesh, New Delhi, 2003.

Pradham, Queeny, Empire in the Itilis: Simia, Darjeeling, Ootacamund, and Mount Abu, 1820-1920, Delhi, 2017.

Thakur, Laxman S., The Architectural Heritage of Himachal Pradesh: Origin and Development of Temple Styles, Delhi, 1996.

## Core Curriculum for Students (BA History IInd year) SEC I

- Details of Hindi Syllabus pertaining to following topics

  1. Dharma: The Source of Spiritual and Cultural Unity of India -

  - A) Hindi Sahitya Ka Itihas DSC 1A HIND 102
     Madhyakalin Hindi Kavita DSC 1B HIND 103
     Anivarya Hindi 'Rachna Punj' Core HIND 201
- Indian Philosophy a) Adhunik Bhartiya Sahitya GE 1 HIND 307
- 3) School of Thoughts System
  - a) Adhunik Bhartiya Sahitya GE 1 HIND 307
- 4) Ethics and Values-
  - a) Anivarya Hindi 'Rachna Punj'- Core HIND 201
     b) Adhunik Hindi Kavita DSC 1C HIND 202
- c) Hindi Gadya Sahitya- DSC 1D HIND 203
  5) Indian Drama a) Rang Alekh Evam Rangmanch SEC -3 HIND 301

- Indian Literature Adhunik Bhartiya Sahitya GE 1 HIND 307

Core Curriculum for Students (BA Hindi)



# <u>*</u> *	Women in Ancient India		Group Discussions and Presentations on: (i) Kinkari Devi (ii) Women Farmers in India	
ENG GE 306	GE-2 Contemporary India: Women and Empowerment  1. Key Concepts: Sex and Gender, Socialization, Discrimination - Gendered and Sevual, Streetyping, Feminism, Patriarchy, Femininities and Masculinities, Transgenders.  2The Creation of Battiatrick, The Creation of Patriarchy by Gerda Lenner.  3. "A Wife's Letter." Rabindra Nath Tagore. Trans. Prasenjif Gupta.  4. "To Waris Shah." Amrita Pritam. Trans. by Amrita Pritam. Selected Poems of Amrita Pritam. A Dialogue Calcutta Publication. 6d Pritish Nandy.  5. Malavika KarlekarDomestic Violence. J. Women' Studies in India Ed Mary E. John.  6. Gogu. ShyamalaRaw. Wound. "Eather. Marche on Elephont and Mother Only a Small Backet, But"  7. Rokeya Sakhawat Hossain. "Sultans Dream! Women Writing in India: 600 BC to the Present. Vol. 1. New Delhi: OUD, 1995. Print.  8. Shivami - Dadil. (-Grandmothert). Women Writing in India: OB BC to the Present. Vol. 2. New Delhi: OUD, 1995. Print.	Suggested Rei  Macculville The Creat  A Field of South Axia  50 Kay Cc. Immelda WI  Seeing Lik Pengun, 2, Fields of I  Ray, ed. U  Provinculu. Bhaduri as Women in & II, ABC. Staying All Kali for W  Women in 2004.  Films: Kauku (1937) Molorangara (1 Entation, (1938) March Macada Bondit Queen Hari Bhard (Cd. Lajja (2001)	ies. R.W. Connell. Polity 2005.  on of Partimely. Gerda Lenner. OUP, 1987.  One's Owr. Gender and Land Rights in Bina Astrawal. CUP, 1994.  Bina Astrawal. CUP, 1994.  meeps in Gender Studies. Jane Pilcher and selehan. Sage Publications, 2004.  e a Fermitst. Nivedita Menon. Zubaan.  Protests: Women's Movements in India. Raka niversity of Minnesota Press.  nel Negotiations of Gender. Saugata di Indrani Mukherjee, Springer, ed., 2015.  India- 4 Social and Cultural History. Vols I CLIO, LLC. Sita Anantha Raman.  New: Women. Ecology and Survival in India. Omen. Vandana Shiva, 1995.  Modern India. Geraldine Forbes. CUP,  (Marathi)  963)  7)  (1987)  (1994)  00)	

## Core Curriculum for Students (BA English) Generic Elective

		First Year (HONS)	
Year	Paper Code	Paper Name & Syllabus	Credits
I	ENG HONS 101	C-1 Indian Classical Literature	6
	  -	Detailed Study:	
		<ol> <li>Kalidasa. Abhijnana Shakumalan. Trans. Chandra Rajan. Kalidaza: The Loom of Time. New Delhi: Penguin, 1989.</li> </ol>	
		Non-Detailed Study:	
		<ol> <li>Vyasa. The Elegendrica, Ed. and Translated. S. Radhakrishman. With special reference to Chapter-3, Verses 1-5 (149-153).</li> <li>Suchaka. McCobatula, Trans. M.M. Ramachandra Kale. New Delhi: Motilal Egnatasidas., 1962.</li> </ol>	
		Suggested Topics and Background Prose Readings for Class Presentations:	
	  -	Topics:	
		The Indian Epic Tradition: Themes and Recensions Classical Indian Drama: Theory and Practice Alankara and Rasa Dharma and the Heroic	
		Suggested Readings:	
		Bharata. Natyoxhastra. Trans. Manomohan Ghosh.     Vol. 1. 2 <sup>nd</sup> edn. Calcutta: Granthalaya, 1967. Chap.     Sentiments; (100-18).	

Core Curriculum for Students (BA English Honors) Ist year

1. Indian Theory of Emotion:

Chapter 6 of Bharata Muni's Natyashastra is taught to M.A. Sem III in the paper/course Literary Criticism.

2. Indian Drama:

M.A. Sem IV students can choose Indian Writing in translation as an elective where Kalidasa's Abhijinanasakuntalam features in the course.

3. Indian Literature: GE 1 Literatures from Himachal Unit I is Folk Literature

4. Indian Drama: First year honours ENG HONS 101 Indian Classical Literature

5. Indian Drama B.A -III ENG GE 306 GE-2 Contemporary India: Women and Empowerment.

6 Indian Literature: First Year Students ENG DSC 103/ ENG HONS GE 102 English Literature 2

Core Curriculum for Students (BA English Honors)

#### **BCA0103 Computers Fundamentals**

L T P 4 0 0

#### UNIT-I

Introduction: Characteristics of Computers, Evolution of computers, Capabilities and limitations of computers, Generations of computers, Types of computers(micro, mini, main frame, supercomputers), Block diagram of computer, Basic components of a computer system0 Input unit, output unit, Arithmetic logic Unit, Control unit, central processing unit, Instruction set, registers, processor speed, type of processors.

#### UNIT-II

Memory: main memory organization, main memory capacity, RAM, ROM, EPROM, PROM, cache memory, PCs specifications.

Secondary Storage Devices- Magnetic Tape, Magnetic DisksOInternal Hard Disk, External Hard Drives, Floppy Disks, Optical Disks-CD, VCD, CD-R, CD-RW, DVD, Solid State StorageOFlash Memory, USB Drives.

#### UNIT-III

Input devices: Keyboard, Pointing Devices0mouse, Touch Screens, Joystick, Electronic pen, Trackball, Scanning Devices-Optical Scanners, OCR, OMR, Bar Code Readers, MICR, Digitizer, Electronic card reader, Image Capturing Devices-Digital Cameras. Output devices- Monitors0 CRT, LCD/TFT, Printers- Dot matrix, Inkjet, Laser, Plotters- Drum, Flatbed, Screen image projector.

#### UNIT-IV

Computer Software: Software and its Need, Types of softwareOSystem software, Application software, System softwareOoperating system, utility program, programming languages, assemblers, compilers and interpreter, introduction to operation system for PCs-DOS, windows, linux, file allocation table (FAT & FAT32), files & directory structure and its naming rules, programming languagesOmachine, assembly, high level, 4GL, their merits and demerits, application software and its types – wordOprocessing, spreadsheet, presentation graphics

Core Curriculum for Students (BCA) Ist year

Bachelor of Arts (Computer Applications)

#### COMP101TH: DSC-2A Problem Solving using Computer

#### Unit-I

Computer Fundamentals: Introduction to Computers: Characteristics of Computers, Uses of Computers, Types and generations of Computers.

Basic Computer Organization: Units of a computer, CPU, ALU, memory hierarchy, registers, I/O devices

#### Unit-II

**Planning the Computer Program:** Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.

**Techniques of Problem Solving:** Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.

#### Unit-III

Overview of Programming: Structure of a Python Program, Elements of Python

Introduction to Python: Python Interpreter, Using Python as calculator, Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings, Operators (Arithmetic operator, Relational operator, Logical or Boolean operator, Assignment, Operator, Ternary operator, Bit wise operator, Increment or Decrement operator).

Creating Python Programs: Input and Output Statements, Control statements (Looping- while Loop, for Loop, Loop Control, Conditional Statement- if...else, Difference between break, continue and pass).

#### Unit-IV

Structures: Numbers, Strings, Lists, Tuples, Dictionary, Date & Time, Modules, Defining Functions, Exit function, default arguments.

**Introduction to Advanced Python:** Objects and Classes, Inheritance, Regular Expressions, Event Driven Programming, GUI Programming.

#### Reference Books:

- 1. P. K. Sinha & Priti Sinha, "Computer Fundamentals", BPB Publications, 2007.
- 2. Dr. Anita Goel, Computer Fundamentals, Pearson Education, 2010.
- 3. T. Budd, Exploring Python, TMH, 1st Ed, 2011
- 4. Python Tutorial/Documentation www.python.or 2010
- Allen Downey, Jeffrey Elkner, Chris Meyers, How to think like a computer scientist: learning with Python, Freely available online.2012
- 6. http://docs.python.org/3/tutorial/index.html
- 7. http://interactivepython.org/courselib/static/pythonds

Core Curriculum for Students (BA Computer Appplications) Ist year

Bachelor of Science (Computer Science)

#### COMP101TH: Problem Solving using Computer

Computer Fundamentals: Introduction to Computers: Characteristics of Computers, Uses of Computers, Types and generations of Computers.

Basic Computer Organization: Units of a computer, CPU, ALU, memory hierarchy, registers, I/O devices.

Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.

Techniques of Problem Solving: Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.

#### Unit-III

Overview of Programming: Structure of a Python Program, Elements of Python

Introduction to Python: Python Interpreter, Using Python as calculator, Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings, Operators (Arithmetic operator, Relational operator, Logical or Boolean operator, Assignment, Operator, Ternary operator, Bit wise operator, Increment or Decrement operator).

Creating Python Programs: Input and Output Statements, Control statements (Loopingwhile Loop, for Loop , Loop Control, Conditional Statement- if...else, Difference between break, continue and pass).

#### Unit-IV

Structures: Numbers, Strings, Lists, Tuples, Dictionary, Date & Time, Modules, Defining Functions, Exit function, default arguments.

Introduction to Advanced Python: Objects and Classes, Inheritance, Regular Expressions, Event Driven Programming, GUI Programming.

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- P. K. Sinha & Priti Sinha , "Computer Fundamentals", BPB Publications, 2007.
- Dr. Anita Goel, Computer Fundamentals, Pearson Education, 2010.
- 3 T. Budd, Exploring Python, TMH, 1st Ed, 2011
- Python Tutorial/Documentation <a href="https://www.python.or..2010">www.python.or..2010</a> Allen Downey, Jeffrey Elkner, Chris Meyers , How to think like a computer scientist: learning with Python, Freely available online.2012
- http://docs.python.org/3/tutorial/index.html
- http://interactivepython.org/courselib/static/pythonds

Core Curriculum for Students (B.Sc Computer Science) Ist year

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## Medicinal Botany and Ethnobotany (BOTA 306)

(Credits 4)

Lectures 45

#### SECTION A

**Unit 1: Traditional Systems of Medicine:** Brief history of use of medicinal herbs; Introduction to indigenous systems of medicines- Ayurveda, Unani and Siddha system of medicine.

#### (5 Lectures)

Unit 2: Ethnobotany: Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context; Major and minor ethnic groups or Tribals of India, and their life styles.

(5 Lectures)

#### SECTION B

Unit 3: Plants Used by the Tribals: a) Food plants b) intoxicants and beverages c) Resins and oils and miscellaneous uses. d Sacred plants (4 Lectures)

Unit 4: Methodology of Ethnobotanical Studies: a) Field work b) Herbarium c) Ancient Literature d)
Archaeological findings e) temples and sacred places. (7 Lectures)

#### SECTION C

#### Unit 5: Role of ethnobotany in modern Medicine

Medico-ethnobotanical sources in India; Significance of the following plants in ethno botanical practices (along with their habitat and morphology) a) Azadiractha indica b)Ocimum sanctum c) Vitex negundo. d) Gloriosa superba e) Tribulus terrestris f) Pongamia pinnata g) Cassia auriculata h) Indigofera tinctoria. Role of ethnobotany in modern medicine with special example Rauvolfia sepentina, Taxus wallichiana, Trichopus zeylanicus, Artemisia, Withania.

(13 Lectures)

#### SECTION D

Unit 6: Role of ethnic groups in conservation of plant genetic resources. Endangered taxa and forest management (participatory forest management). (3 Lectures)

Unit 7: Ethnobotany and Legal Aspects: Ethnobotany as a tool to protect interests of ethnic groups. Sharing of wealth concept with few examples from India. Biopiracy, Intellectual Property Rights and Traditional Knowledge.

(8 Lectures)

Core Curriculum for Students (B.Sc Botany) IIIrd year