

LAKSHMIPAT SINGHANIA ACADEMY

SESSION (2025-2026)

PROJECT PLAN –TERM 1

CLASS X

SUBJECT: ENGLISH

TOPIC - SUSTAINABLE CITIES AND COMMUNITY: THE GREEN SPACE

Sustainable cities prioritize green spaces, incorporating parks, gardens, and green roofs to mitigate urban challenges like air pollution, heat islands, and storm water runoff. These areas not only enhance biodiversity but also promote community well-being by providing recreational spaces, improving mental health, and fostering social connections. By integrating nature into urban planning, cities can become more livable, resilient, and environmentally conscious



Identify any 2 top cities of India that have effectively integrated green spaces. Support your claim with significant data and metrics through **a power point presentation**.

MARKS DISTRIBUTION (OUT OF 20)

- Content-8
- Presentation-6
- Creativity-6

PROJECT GUIDELINES:

1. Students will research on the topic and identify cities that promote and practice sustainable practices: Renewable energy, waste management, eco-friendly transportation, etc.
2. They must prepare a PPT on the given topic.
3. A power point presentation will be submitted by each group
4. The slides should contain the following:
 - Slide 1 - Name, Group No. , Title
 - Slide 2 - Introduction to the topic
 - Slide 3 - Importance of Green space
 - Slide 4 & 5 - City 1 and the initiatives taken
 - Slide 6 & 7- City 2 and the initiatives taken
 - Slide 8 – Highlight the lesson and insights that can be applied to other cities (Conclusion)
 - Slide 9 - A digital poster on the topic
 - Slide 10 - Bibliography

LEARNING OBJECTIVE:

Students will be able to:

- Investigate a research question
- Collect and analyze data
- Develop communication and interpersonal skills through real-world interaction.
- Recognize and appreciate local sustainable practices.
- Use digital tools to present their findings in a creative format.
- Work in groups to plan, research, and document a comprehensive report

LEARNING OUTCOMES:

1. Students will comprehend the concept of sustainable development and its importance in urban planning.
2. Students will learn about the benefits of green spaces in cities, including environmental, social, and economic advantages.
3. Students will understand the role of green spaces in urban planning and design, including their impact on air quality, climate regulation, and citizen well-being.
4. Students will analyze challenges and opportunities in creating and maintaining green spaces in cities and propose sustainable solutions.

RUBRICS FOR EVALUATION

| PARAMATERS | 5 | 4 | 3 |
|--|--|---|--|
| Authenticity of the contents and appropriate expression (5) | Content is unique and proper research done and concepts properly explained but lacks expression | Not Unique but the concepts are well explained | Neither unique nor well explained |
| Timely submission demonstrates concise knowledge and understanding of the theme (5) | The submission addresses the requirement in meaningful and relevant way. The information is concise and accurate | The submission addresses the requirement. The information is presented accurately and in a concise manner | The submission somewhat addresses the requirement, but not in a cohesive or concise manner |
| Use of Technology (5) | Accesses suggested sites and employed technologies fluently | Accesses suggested sites and employed technologies adequately with support | Struggled while using technology. Struggled with teacher-provide strategies and resources |
| Creativity and Art Integration (5) | The concept and presentation in submission is creative, | The concept in the submission is somewhat creative | The concepts in the submission lacks creativity |

| | | | |
|--|---|--|--|
| | especially as compared with other submissions | | |
|--|---|--|--|

SUBJECT :MATHEMATICS

TOPIC: SUSTAINABLE CITIES AND COMMUNITIES: THE GREEN SPACE

LEARNING OBJECTIVES:

The world's population is constantly increasing. To accommodate everyone, we need to build modern, sustainable cities. For all of us to survive and prosper, we need new, intelligent urban planning that creates safe, affordable and resilient cities with green and culturally inspiring living conditions.

Students will be divided into six groups and each group will work on how mathematics can help in designing a green space. Math project could involve – Designing a park or green area, calculating its area and perimeter, potential carbon sequestration capacity and then integrating this into a broader city planning model.

- 1) **Define the Project:** Determine the specific area or city you'll be focusing on, and the specific metrics you'll be using to assess the sustainability of green spaces.
- 2) **Mapping and Measurement:** Collect data on the current layout of the city, existing green spaces, population density, climate patterns, and relevant social and economic factors. Use maps, satellite imagery to determine the area and perimeter of the proposed green space.
- 3) **Tree Planting and Carbon Sequestration:** Calculate the number of trees needed to sequester a specific amount of CO₂, considering tree species and growth rate.
- 4) **Green Roof Design:** Design the green roof, considering its size, slope, substrate depth and plant species.

LEARNING OUTCOME:

Students will be able to design a green space for people to live.

<https://cbmjournals.biomedcentral.com/articles/10.1186/s13021-023-00238-w>

<https://www.winssolutions.org/59-sustainable-development-ideas-for-students-with-practical-examples/>

RUBRICS FOR EVALUATION

| CATEGORY | GREAT WORK (4) | GOOD WORK (3) | SATISFACTORY (2) | COULD BE BETTER (1) |
|---------------------------------------|--|--|---|---|
| TOPIC CONTENT – ACCURACY (4) | Content regarding green space designing well explained. All facts are accurate | Content regarding green space designing well explained. 90 – 95% of the facts are accurate | Explanation needs improvement 80 – 89% of the facts are accurate | More points need to be added Less than 80% of the facts are accurate |

| | | | | |
|--|--|---|---|--|
| <p>WRITING- VOCABULARY</p> <p>EDITING- LANGUAGE</p> <p>(4)</p> | <p>Use of mathematical terms and formulae in the proper way. Presentation is free from grammatical errors</p> | <p>Use of few mathematical terms and formulae in the proper way. The presentation may have one or two grammatical errors</p> | <p>Less use of mathematical terms and formulae in the proper way. The presentation may have few grammatical errors</p> | <p>No Use of mathematical terms and formulae in the proper way. There are many grammatical errors</p> |
| <p>GRAPHICS- FORMULAE</p> <p>(4)</p> | <p>Tables, pictures and design go well with the text calculations are correct and there is good mix of text and graphics</p> | <p>Tables, pictures and design go well with the text , calculations are correct but they are inappropriately sized, too small or hard to read</p> | <p>Tables, pictures and design go well with the text , but calculations are incorrect they are too few and the project seems text heavy</p> | <p>There are no Images and pictures or they do not go with the topic</p> |
| <p>OVERALL PRESENTATION</p> <p>(4)</p> | <p>The presentation is exceptionally attractive, in terms of design, layout and neatness</p> | <p>The presentation is attractive, in terms of design, layout and neatness</p> | <p>The presentation is acceptably attractive, though it may be a bit messy</p> | <p>The project is distractingly messy or very poorly designed</p> |
| <p>USE OF PROPER FORMULA AND CALCULATIONS</p> <p>(4)</p> | <p>Calculations are properly done with the correct formulae</p> | <p>Calculations are properly done with the correct formulae but all steps are not shown</p> | <p>Calculations are not properly done and all steps are not shown</p> | <p>Calculations are not properly done and all steps are not shown. Needs a lot of improvement in terms of presentation and neatness.</p> |

SCIENCE

SUBJECT : PHYSICS

TOPIC: SUSTAINABLE CITIES AND COMMUNITIES – THE GREEN SPACE



LEARNING OBJECTIVES:

Students will

- **Understand the principles like heat transfer and insulation to design green roofs**
- **Analyze the existing green spaces in our cities**

Sustainable Cities and Communities is one of the 17 Sustainable Development Goals (SDGs) established by the United Nations in 2015. It aims to make cities and human settlements inclusive, safe, resilient, and sustainable, with a focus on promoting sustainable urbanization and efficient resource management by 2030.

1. How can principles such as heat transfer and insulation be applied to design more efficient Green roofs and buildings ?
2. Analyse the existing green spaces in your cities, highlighting their design and operation through a survey in your locality and compiling them.
3. Taking pictures of any three big complexes design your dream project for residences incorporating sustainable urbanization and efficient resource management

LEARNING OUTCOMES:

Students will understand the principles such as heat transfer and insulation to design green roofs.

RUBRICS FOR EVALUATION

| PARAMATERS | 2 | 1.5 | 1 |
|-------------------------------------|--|---|--|
| Details of Research on the topic(2) | Content is well researched ,genuine with detailed explanation | Not well researched , but the concepts are well explained | Neither well researched , nor well explained |
| Presentation (2) | Well presented | Average | Sketchy |
| Creativity and Art Integration (2) | The concept in submission is creative, especially as compared with other submissions | The concept in the submission is somewhat creative | The concepts in the submission |

| | | | |
|--|--|--|------------------|
| | | | lacks creativity |
|--|--|--|------------------|

SUBJECT :CHEMISTRY

TOPIC: SUSTAINABLE CITIES AND COMMUNITIES – THE GREEN SPACE

LEARNING OBJECTIVES:

Students will

- Understand the role of chemical fertilizers and pesticides in maintaining urban spaces
- Develop informed perspective

Sustainable development is a way of meeting present needs without

compromising the ability of future generations to meet their own needs

1. Research the effects of pesticides on soil, water and plant life and explore alternatives.
2. What role do chemical fertilizers and pesticides play in maintaining urban green spaces, and what are their environmental impacts?
3. Make a video of making a natural indicator at home and testing the soil in your garden with it.

LEARNING OUTCOMES:

Students were able to understand the role of chemical fertilizers and pesticides in maintaining urban spaces and develop informed perspective

RUBRICS FOR EVALUATION

| PARAMATERS | 2 | 1.5 | 1 |
|-------------------------------------|--|---|---|
| Details of Research on the topic(2) | Content is well researched ,genuine with detailed explanation | Not well researched , but the concepts are well explained | Neither well researched , nor well explained |
| Presentation (2) | Well presented | Average | Sketchy |
| Creativity and Art Integration (2) | The concept in submission is creative, especially as compared with other submissions | The concept in the submission is somewhat creative | The concepts in the submission lacks creativity |

SUBJECT :BIOLOGY**TOPIC: IMPORTANCE OF GREEN SPACES IN URBAN AREAS****LEARNING OBJECTIVES:-**

1. To understand the benefits of green spaces in urban areas.
2. To investigate the impact of green spaces on air quality, noise pollution, and biodiversity.
3. To propose ways to increase green spaces in urban areas.

LEARNING OUTCOME :-

Students are able to understand the importance of green spaces in today's evolving urbanization.

1. **Introduction:** Write a brief introduction to the importance of green spaces in urban areas, including their benefits for air quality, noise pollution, and biodiversity.
2. **Data Collection:** Collect data on the green spaces in your city or a nearby urban area. You can use online resources or conduct surveys to gather information.
3. **Analysis:** Analyze the data to show the impact of green spaces on air quality, noise pollution, and biodiversity.
4. **Proposals:** Based on your research, propose ways to increase green spaces in urban areas.
5. **Conclusion:** Summarize your findings and emphasize the importance of green spaces in urban areas.

Presentation:

1. Create a visually appealing poster on chart with headings, diagrams, and pictures.
2. Include pictures or diagrams of different types of green spaces to illustrate your points.

RUBRICS FOR EVALUATION

| PARAMATERS | 2 | 1.5 | 1 |
|--------------------------------------|--|---|---|
| Details of Research on the topic (2) | Content is well researched ,genuine with detailed explanation | Not well researched , but the concepts are well explained | Neither well researched , nor well explained |
| Presentation (2) | Well presented | Average | Sketchy |
| Creativity and Art Integration (2) | The concept in submission is creative, especially as compared with other submissions | The concept in the submission is somewhat creative | The concepts in the submission lacks creativity |
| Ethical aspect (2) | Concept well related to life problems | Concept is related to life problems is not well explained | Lack of problem solving aspect |

SOCIAL SCIENCE
ALIGNED WITH CBSE PROJECT

SUBJECT :HISTORY

Social issues are the threads that intricately weave through the fabric of our society demanding our attention, empathy and action. They are the challenges and complexities that affect individual, communities, even the entire nation often leaving a profound impact on people's lives

TOPIC: SOCIAL ISSUES IN INDIA- A CBSE PROJECT

LEARNING OBJECTIVES

To create awareness amongst students about various social issues prevailing in India to study the various state and central level programs related to social and economic issues In India Explain important psychological aspects of social problems: poverty, child abuse, pollution etc. Students will soak up technological innovations and approaches to solving societal problems.

METHODOLOGY:

- To explore the Project ON SOCIAL ISSUES everyone will produce digital documentary shorts, or 8–10-minute videos that present research findings on a chosen social issue. The goal of digital documentary shorts is to help students make learning visible, communicate their findings, and take informed action as citizens. Students will research their issues and find evidence to support their ideas. This included textual evidence from digital media (e.g. videos and pictures), interviews with other students and community members, and print sources.
- Students can develop digital storyboards, which is a way to graphically display images in a sequence so students can visualize an animation or video.
- Students used Windows Movie Maker software to create their digital shorts.
- Slides have to be original, if found otherwise, its liable to be cancelled.
- Group Discussion will be taken.

1) POVERTY AND ECONOMIC INSECURITY

1a) Poverty is a multidimensional concept. How has World Bank and United Nations defined poverty?

1b) How has Dr. Amartya Sen provided a useful alternative to understanding poverty?

2) What are the challenges faced by INDIA's urban poor? Is Poverty the outcome of inequalities or Deprivation?

3) Analyse the poverty reduction in INDIA in the last 3 decades

4) What is the influence of poverty on crime? Reference:

Urban-poor-in-India-Addressing-the-challenges-1.pdf (cbgaindia.org). India releases its first report on urban poverty | Cities Alliance

Poverty Reduction in India: An Analysis of last three decades - Civilsdaily Poverty And Crime In India Free Essay Example (paperap.com)

Is poverty the mother of crime? Empirical evidence of the impact of socioeconomic factors on crime in India – JGU Research Blog – O.P. Jindal Global University

2) GENDER ISSUES IN India and Providing Workplace Diversity

1) Various studies indicate a huge gap in the gender ratio in workplaces, with research identifying that six in every 10 jobs prefer male candidates to women. What steps towards making an equitable workplace are required in a growing economy like India?

- 2) What is a Gender-Inclusive culture?
 - 3) How will one break the barriers and build equality, which will pave the way to inclusive workplaces? Give examples to support your project.
 - 4) Gender Equality in India – Empowering Women is Empowering India .JUSTIFY
Reference:
<https://timesofindia.indiatimes.com/blogs/voices/gender-diversity-in-the-workplace/>
<https://kinaracapital.com/importance-of-inclusivity-in-workspaces-for-women-in-india/> Gender Inequality in Indian Society | Causes & Awareness of Gender Inequality in India (careindia.org)
- 3) Child Labour and Addressing Child Abuse Issues. 1a) what is child labour? What are its forms and causes?
1b) what are your opinions and suggestions to combat this social evil?
- 2) Child labour is a violation of both Child protection and Child Rights.
The International Labour Organization report indicates that a total of 3.3 million children are in situations of forced labour on any given day. Make digital magazine and photo gallery
 - 3) Global meeting on Target 8.7 of the Sustainable Development Goals – has committed to ending by 2025.- explain through your project the strategies adopted.
 - 4) Historically, we have witnessed constructive changes in laws, policies and recognition of human rights and child rights. The Constitution of India guarantees children's Rights .Highlight the Rights.
Reference:
https://www.legalserviceindia.com/legal/article-1246-child-labour-is-child-abuse-for-which-you-have-no-excuse.html#google_vignette
<https://theindianlaw.in/child-labour-in-india-and-its-constitutional-implications>
- 4) POLLUTION AND PLASTIC WASTE MANAGEMENT.
- 1) Pollution is a social issue or an environmental issue? Justify?
 - 2) Discuss the effective and practical control measures for minimizing environmental pollution in your region?
 - 3) Plastic pollution is an environmental injustice to the vulnerable groups.
 - 4) Why is the plastic waste crisis a social issue?
- Plastic pollution is an environmental injustice to vulnerable communities – new report (unep.org)
5 Biggest Environmental Issues in India in 2024 | Earth.Org
Explained: What Lancet report says about India's pollution problem - The Hindu

LEARNING OUTCOME:

When creating a project on social issues in India, it's essential that students delve into the complexities of these challenges and their impact on people and communities. Highlight the effects of poverty on people's lives, including health disparities, limited opportunities, and vulnerability to crime.

Addressing child labour is crucial not only for the well-being of children but also for ensuring better learning outcomes and breaking the cycle of poverty

STUDENTS will understand the importance of responsible plastic waste management to mitigate environmental harm and promote sustainability.

RUBRICS FOR EVALUATION

| PARAMATERS | 4 | 3 | 2 | 1 |
|---|---|---|---|--|
| Content (4) | Applicable to Theoretical knowledge and all facts are correct. Map work done perfectly. | Applicable to Theoretical knowledge and all facts are correct. One or two factual errors. Map work done but not shaded/colored correctly. | Applicable to Theoretical knowledge and all facts are correct. Few factual errors. Map work not shaded correctly. All states are not marked. | Applicable to theoretical knowledge and all facts are not at all relevant to the topic. Map is missing. |
| Presentation (3) | - | Overall impact of the project is attractive and appealing to the viewers. Students are well prepared. Teamwork is visible. Project is compiled up to the mark. | Overall impact of the project is quite appealing to the viewers. Students are well prepared. Teamwork is visible. Project is fairly compiled. | Some attempt has been made to make the presentation appealing to the viewers. Students are well prepared. Teamwork is visible. Project is not compiled up to the mark. |
| Graphics/Photographs/Charts/Relevance to the topic and Team Work (3) | - | Presentation includes relevant photographs/charts/ Maps/ model/diagrams are correct/relevant to the topics. Independent research work and collaboration shown by the | Presentation includes relevant photographs/charts/ Maps/ model/diagrams are partially correct/relevant to the topics. Team work shows communication gap. | Graphics / Chart /models are not clear. They are irrelevant to the topic. No group coordination shown. |

| | | | | |
|--|--|---|--|--|
| | | team members. Tried to adapt the new technology. | | |
|--|--|---|--|--|

SUBJECT :GEOGRAPHY

TOPIC: LIFELINES OF NATIONAL ECONOMY

SUB TOPIC: TRANSPORT



Transport is the movement of humans, animals and goods from one location to another. Transportation moves people and goods from one place to another using a variety of vehicles across different infrastructure systems. It does this using not only technology (namely vehicles, energy, and infrastructure), but also people's time and effort; producing not only the desired outputs of passenger trips and freight shipments, but also adverse outcomes such as air pollution, noise, congestion, crashes, injuries, and fatalities. If agriculture and industries are supposed to be the body of the country, transport may be said to be the nerves and veins of the economy.

Group 1 and 5: ROADWAYS

Case Study on India's Highway Revolution: A look at five transformative expressways set to redefine travel in 2024.

Group 2: WATERWAYS

Case Study on Inland Water Transportation in India: Past, Present and Future.

Group 3 and 6: RAILWAYS

Case Study on Underwater Metro Tunnel, Kolkata

Group 4: AIRWAYS

Case Study of the Indian Aviation Sector: Soaring High or Turbulence Ahead.

- Students will have to research the mode of transport assigned to their group.

Locate the following on the political map of India as assigned to each group:

- (a) Roadways: Golden Quadrilateral Super Highways- East West and North South corridor.
- (b) Waterways: Major Sea Ports- Kolkata, Mumbai, Chennai and Kandla.
- (c) Railways: Railway Zonal Headquarters- Bhubaneswar, Jaipur, Secunderabad and Jabalpur.
- (d) Airways: Major Airports- Delhi, Kolkata, Chennai and Mumbai.

- Students will write about the advantages and disadvantages of the mode of transport assigned to them with any two relevant pictures.
- Students will provide a brief report on the CASE STUDY assigned to them. (80 Words)

PROJECT FORMAT:

- ✓ Projects need to be done in groups.
- ✓ Support the project with relevant pictures.
- ✓ Students will make a PowerPoint presentation (maximum 8 slides including cover page, acknowledgement, index, content and bibliography)
- ✓ Each group designs a simple online quiz or interactive game based on mode of transport. Platform suggestions (free & easy to use):
 - [Kahoot](#)
 - [Wordwall](#)
 - [Quizizz](#)
 - [Google Forms \(Quiz mode\)](#)

Game Content Suggestions:

- MCQs about mode of transport
- Interdependence between the various modes of transport.
- Picture-based questions

Submission: Game link + Screenshot of the game page

SUBJECT INTEGRATION: History, Life-skills, Political Science, Physics, Economics, Mathematics, A.I. and English.

LEARNING OBJECTIVE:

- ✓ To explain the role of infrastructure in the development of an area.

- ✓ To establish a relationship between needs and mode of transport system.
- ✓ To identify the pattern and networks of important roads, railways, airways, and waterways.
- ✓ To appreciate the role of transport in changing the way of life in rural and urban areas.
- ✓ Application ,understanding and analytical skills reinforced through online games.

LEARNING OUTCOME: The learning outcome will include –

- ✓ Independent research work.
- ✓ Collaboration.
- ✓ Awareness and awakening among all.
- ✓ Explain the basic concepts of transportation and the importance of transportation.
- ✓ They will be able to explain all modes and components of transport.
- ✓ Understand how transport systems **rely on each other** to overcome distance, cost, and terrain challenges.
- ✓ Appreciate real-world transport planning, including trade-offs and logistics.
- ✓ Promote critical thinking and adaptability in resource management.

LINKS:

<https://ncert.nic.in/textbook.php?ln=en>

https://en.wikipedia.org/wiki/Transport_in_India

<https://www.linkedin.com/pulse/case-study-underwater-tunnel-kolkata-hrushikesh-bang>

<https://www.financialexpress.com/business/infrastructure-kolkata-metro-update-indias-first-underwater-metro-tunnel-to-be-made-operational-by-2023-2484846/>

<https://www.financialexpress.com/business/roadways-indian-expressways-in-2024-delhi-dehradun-expressway-delhi-mumbai-expressway-delhi-amritsar-katra-expressway-dwarka-expressway-bengaluru-chennai-expressway-3356046/>

https://www.researchgate.net/publication/350107515_Inland_Water_Transportation_in_India_Past_Present_and_Future_Theme_Transportation_Planning

<https://www.managementstudyguide.com/case-study-of-indian-aviation-sector.htm>

RUBRICS FOR EVALUATION

| Parameters | 4 | 3 | 2 | 1 |
|----------------|---|--|--|---|
| Content (4) | Applicable to Theoretical knowledge and all | Applicable to Theoretical knowledge and all facts are correct. | Applicable to Theoretical knowledge and all facts are correct. | Applicable to theoretical knowledge and all facts are |

| | | | | |
|---|--|---|---|---|
| | facts are correct. Map work , Game and Case Study done perfectly. | One or two factual errors. Map work done but not shaded/colored correctly. Case Study and game should be descriptive and completed with one error. | Few factual errors. Map work not shaded correctly. All states are not marked. Case Study and game should be descriptive and completed with two error. | not at all relevant to the topic. Map is missing. Case Study and game not attempted. |
| Presentation (3) | - | Overall impact of the project is attractive and appealing to the viewers. Students are well prepared. Teamwork is visible. Project is compiled up to the mark. | Overall impact of the project is quite appealing to the viewers. Students are well prepared. Teamwork is visible. Project is fairly compiled. | Some attempt has been made to make the presentation appealing to the viewers. Students are well prepared. Teamwork is visible. Project is not compiled up to the mark. |
| Graphics/Photographs/Charts/Relevance to the topic and Team Work (3) | - | Presentation includes relevant | Presentation includes relevant | Graphics / Chart /models |

| | | | | |
|--|--|--|--|--|
| | | <p>photographs/ charts/ Maps/ model/diagrams are correct/relevant to the topics.</p> <p>Independent research work and collaboration shown by the team members.</p> <p>Tried to adapt the new technology.</p> | <p>photographs/ charts/ Maps/ model/diagrams are partially correct/relevant to the topics.</p> <p>Team work shows communication gap.</p> | <p>are not clear.</p> <p>They are irrelevant to the topic.</p> <p>No group coordination shown.</p> |
|--|--|--|--|--|

SUBJECT: ARTIFICIAL INTELLIGENCE

TOPIC: AI IN ACTION: BUILD YOUR OWN CHATBOT

Platform: IBM SkillsBuild eLearning

Course Link: <https://students.yourlearning.ibm.com/activity/SN-COURSE-V1:IBMDEVELOPERSKILLSNETWORK+CB0101EN+V1>

Mode: Individual Submission

LEARNING OBJECTIVES:

- Understand the fundamentals of chatbots and their real-world applications.
- Learn how to use IBM Watson Assistant to create a functional chatbot.
- Design, build, and deploy a basic customer support chatbot without writing code.
- Reflect on how cognitive AI tools can be used for automation and problem-solving.

LEARNING OUTCOMES:

- Navigate IBM SkillsBuild and complete an eLearning course independently.
- Plan a chatbot conversation flow using a user-centric approach.
- Build and test a chatbot using IBM Watson Assistant.
- Deploy a chatbot on a WordPress-based site or present a demo.
- Communicate their design process and learning experience effectively.

Project Guidelines:

- Go to the course link and sign up using your Google account** to access the IBM SkillsBuild platform.

- b) Enroll in the IBM SkillsBuild platform and complete the "Build Your Own Chatbot" course.
- c) Complete all course modules and submit the completion badge/screenshot.
- d) Build a chatbot for a school-based or local business problem (e.g., school admissions query bot, library assistant bot, local store FAQ bot).
- e) Record a 2–3 minute video including:
 - Introduction (Name, Class, Objective of the chatbot)
 - Problem statement and why a chatbot is a good solution
 - Brief demo of the chatbot in action
 - Reflection: What you learned and how you plan to improve it
- f) Upload the video (Unlisted)
- g) Add the consent form duly filled up + Unlisted YouTube link + course completion screenshot in a Word Document, save as Term1_FirstName and submit via MS Teams.

Consent form for Photograph, Video or Audio Recording

I, _____ (full name) of class-_____ sec_____, do hereby give my consent to the use my image, video, voice, and or all three of them, for the Artificial Intelligence Term1 project (Session 2024-25).

I agree that all such pictures, video or audio recordings and any reproduction thereof shall remain the property of the academy and will be used for educational purposes only.

Date: _____

RUBRIC FOR EVALUATION

| Criteria | Excellent (4) | Good (3) | Needs Improvement (1) |
|------------------------------------|--|---|--|
| Completion of Course (4) | Course completed with badge and all modules | Partial completion with evidence | No evidence of completion |
| Problem-Solution Clarity (4) | Clear problem, logical chatbot idea | Somewhat relevant problem/solution | Poor problem definition or irrelevant solution |
| Originality & Independent Work (4) | Work shows original thought, not copied; clear understanding and independent effort. | Some use of AI tools or chatbots but attempted to customize and show understanding. | Work is mostly copied from AI tools/chatbots, little independent effort shown. |
| Chatbot Demo Quality (4) | Fully functional chatbot with smooth flow | Minor flaws or limited interactivity | Incomplete or not working |
| Presentation & Reflection (4) | Clear, confident explanation and insights | Average presentation or reflection | Weak explanation or no reflection |

QR Code for course link:



SUBJECT- HINDI

विषय- हरित नगर और समुदाय : सतत विकास की ओर एक कदम

आज के समय में, जब शहरीकरण की गति दिन-प्रतिदिन तेज़ होती जा रही है, हमारे सामने सबसे बड़ी चुनौती पर्यावरणीय असंतुलन और प्राकृतिक संसाधनों का अत्यधिक दोहन है। तेज़ी से बढ़ते शहरीकरण और जनसंख्या के दबाव ने आज शहरों को कंक्रीट के जंगल में परिवर्तित कर दिया है। ऐसे में हरित क्षेत्र (Green Space) जैसे – पार्क, बगीचे, वृक्षों की कतारें, वन क्षेत्र – किसी भी सतत (Sustainable) शहर की आत्मा के समान हैं। ये न केवल सौंदर्य बढ़ाते हैं, बल्कि स्वच्छ वायु, मानसिक शांति और सामाजिक संतुलन का भी आधार बनते हैं। इस चुनौती का सामना करने के लिए हरित नगरों (Green Cities) और सतत विकास (Sustainable Development) की अवधारणा अत्यंत महत्वपूर्ण बन गई है।

'हरित नगर' या 'सतत समुदाय' ऐसे शहरी क्षेत्र होते हैं जहाँ प्राकृतिक संसाधनों का विवेकपूर्ण उपयोग, पारिस्थितिकी संतुलन और सामाजिक कल्याण के बीच सामंजस्य स्थापित किया जाता है।

एक जागरूक विद्यार्थी होने के नाते सतत विकास के सिद्धांतों को अपने जीवन में अपनाते हुए पर्यावरणीय और सामाजिक समस्याओं के समाधान की दिशा में अपने योगदान का उल्लेख करते हुए एक सचित्र पॉवरपॉइंट प्रस्तुति तैयार करें।

आवश्यक निर्देश:

प्रत्येक कक्षा को 6 समूहों में विभाजित किया जाएगा।

समूह- 1,2,3 (संकेत बिन्दु)

- हरित क्षेत्र (Green Space) का अर्थ तथा उद्देश्य ।
- सतत विकास (Sustainable Development) के सिद्धांत और इनका शहरी जीवन में महत्व।
- हरित नगरों (Green Cities) और सामान्य नगरों के बीच क्या अंतर और हरित नगरों की प्रमुख विशेषताएँ ।
- 'पारिस्थितिकी संतुलन' (Ecological Balance) को बनाए रखने में हरित क्षेत्र की भूमिका ।
- आपके विद्यालय या घर के पास कोई ऐसा हरित क्षेत्र है, जिसे संरक्षित या विस्तारित किया जा सकता है?

समूह- 4,5,6 (संकेत बिन्दु)

- शहरीकरण से पर्यावरण पर नकारात्मक प्रभाव को रोकने के लिए उचित कदम ।
- शहरी जीवन में हरियाली बढ़ाने के लिए दैनिक जीवन में कौन-कौन सी चीज़ें बदल सकते हैं?
- वृक्षारोपण (Tree Plantation) का महत्व और इस कार्य को बढ़ावा देने के लिए आपका उचित कदम ।
- 'कचरा प्रबंधन' (Waste Management) और 'जल संरक्षण' (Water Conservation) का शहरी हरियाली संबंध ।
- आपके विद्यालय या घर के पास कोई ऐसा हरित क्षेत्र है, जिसे संरक्षित या विस्तारित किया जा सकता है?

LEARNING OBJECTIVES:

- शहरीकरण और पर्यावरणीय असंतुलन के बीच संबंध को समझ सकेंगे।
- हरित नगर (Green City) और सतत विकास (Sustainable Development) की अवधारणाओं को स्पष्ट रूप से जान सकेंगे।
- हरित क्षेत्रों के महत्व और लाभों को पहचान सकेंगे।
- एक जागरूक नागरिक और विद्यार्थी के रूप में पर्यावरणीय समस्याओं के समाधान हेतु अपने योगदान की योजना बना सकेंगे।
- सामाजिक जागरूकता और पर्यावरणीय संरक्षण के लिए प्रेरित हो सकेंगे।

LEARNING OUTCOME:

- शहरीकरण के कारण होने वाले पर्यावरणीय प्रभावों की पहचानने में सक्षम हुए।
- हरित नगर और सतत विकास की अवधारणाओं को समझने में सक्षम हुए।
- हरित क्षेत्रों के लाभों को उदाहरणों सहित बता सकेंगे।
- एक जिम्मेदार नागरिक के रूप में पर्यावरण संरक्षण के लिए छोटे-छोटे कदम उठाने में सक्षम हुए।
- अपने आसपास के लोगों को भी जागरूक करने के लिए प्रेरित करने में सक्षम हुए।

RUBRICS FOR CLASS- X

| मानदंड | 5 | 4 | 3 | 2 |
|---|---|--|--|--|
| विषय-वस्तु का प्रभावी और सृजनात्मक वर्णन (5) | विषय सामग्री से जुड़े तथ्यों पर गहरा शोध और लेख में सटीक एवं विषयानुरूप वर्णन भूमिका और निष्कर्ष के साथ है। | एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप है। भूमिका और निष्कर्ष त्रुटियों के साथ है। प्रश्नोत्तर से पहले भूमिका स्पष्ट नहीं थी। | कुछ तथ्य विषयानुरूप है पर तीन से अधिक त्रुटियाँ पाई गई हैं। | प्रयुक्त लेखों में विषय सामग्री स्पष्ट नहीं है। |
| तकनीक एवं इंटरनेट संसाधनों का रचनात्मक | परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट | परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, | परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, | परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए ग्राफिक्स, इंटरनेट संसाधनों, |

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|-------------------------------|---|---|--|--|
| प्रयोग एवं चित्र संकलन (5) | संसाधनों, तस्वीरों का अच्छा उपयोग। | तस्वीरों का कुछ उपयोग। | तस्वीरों का कम उपयोग। | तस्वीरों का उपयोग नहीं किया गया। |
| भाषा का प्रयोग (5) | प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग। | प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी कुछ ही त्रुटियों का होना। | प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण भाषा की उपयुक्तता का अभाव पाया जाना। | प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण-विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण विषयानुसार भाषा का प्रयोग न हो पाना। |
| समग्र प्रस्तुति (5) | परियोजना का समग्र प्रभाव रोचक और आकर्षक। | परियोजना का समग्र प्रभाव ध्यान आकर्षण के लिए पर्याप्त। | परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ ही प्रयास किया गया। | समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थी ने किसी प्रकार का प्रयास नहीं किया। |

SUBJECT : BENGALI 2ND LANGUAGE

TOPIC : Eco – Sustainable Cities and Community: The Green Space

পরিয়োজনা কার্যের উদ্দেশ্য :

- সবুজ শহর ও সম্প্রদায়ের অর্থ ও গুরুত্ব অনুধাবন করা।
- পরিবেশের ভারসাম্য বজায় রাখতে সবুজ শহরের প্রয়োজনীয়তা সম্পর্কে ধারণা লাভ করা।
- সবুজ শহর ও সম্প্রদায়ের বিভিন্ন বৈশিষ্ট্য সম্পর্কে অবহিত হওয়া
- সৃজনশীলতার বিকাশ।
- ভাষাশৈলির বিকাশ।
- ব্যবহারিক প্রয়োগক্ষমতা বৃদ্ধি।
- ভাষার ব্যবহার ও বিচারশক্তির বিকাশ।

আজকের সময়ে, যখন নগরায়নের গতি দিন দিন বৃদ্ধি পাচ্ছে, তখন আমাদের সামনে সবচেয়ে বড় চ্যালেঞ্জ হল পরিবেশগত ভারসাম্যহীনতা এবং প্রাকৃতিক সম্পদের অত্যধিক শোষণ। দ্রুত বর্ধনশীল নগরায়ণ এবং জনসংখ্যার চাপ আজ শহরগুলিকে কংক্রিটের জঙ্গলে রূপান্তরিত করেছে। এমন পরিস্থিতিতে, পার্ক, বাগান, গাছের সারি, বনাঞ্চলের মতো সবুজ স্থানগুলি যেকোনো শহরের আত্মার মতো। এগুলো কেবল সৌন্দর্য বৃদ্ধি করে না বরং বিশুদ্ধ বাতাস, মানসিক শান্তি এবং সামাজিক ভারসাম্যের ভিত্তিও তৈরি করে। এই চ্যালেঞ্জ মোকাবেলায়, সবুজ শহর এবং টেকসই উন্নয়নের ধারণাটি অত্যন্ত গুরুত্বপূর্ণ হয়ে উঠেছে।

'সবুজ শহর' বা 'টেকসই সম্প্রদায়' হল এমন নগর এলাকা যেখানে প্রাকৃতিক সম্পদের সুবিচারপূর্ণ ব্যবহার, পরিবেশগত ভারসাম্য এবং সামাজিক কল্যাণের মধ্যে ভারসাম্য অর্জন করা হয়।

একজন সচেতন নাগরিক হিসেবে, তোমার জীবনে সবুজ শহর ও টেকসই উন্নয়নের নীতি গ্রহণ করে পরিবেশগত ও সামাজিক সমস্যা সমাধানের উল্লেখ করে একটি চিত্রিত পাওয়ারপয়েন্ট উপস্থাপনা তৈরি কর। যেকানে থাকবে

- সবুজ শহর ও সম্প্রদায়ের ধারণা
- সবুজ শহর ও সম্প্রদায়ের বৈশিষ্ট্য
- সবুজ শহর ও সম্প্রদায়ের উদাহরণ

➤ সবুজ শহর গড়ে তোলার জন্য তোমার অবদান বা অংশগ্রহন

পরিয়োজনা কার্যের কাঙ্ক্ষিত ফলাফল:

এই প্রকল্পটির মাধ্যমে শিক্ষার্থীদের মধ্যে সবুজ শহরের ধারণাটি স্পষ্ট হবে। একজন সচেতন নাগরিক হিসাবে পরিবেশের ভারসাম্য রক্ষায় সচেতনতা বৃদ্ধি পাবে। আদর্শ সবুজ শহর গড়ে তোলায় সক্রিয় অংশগ্রহনে উৎসাহ পাবে।

RUBRICS

| দক্ষতা | 4 | 3 | 2 | 1 |
|-------------------------------|---|--|--|----------------------|
| বিষয়বস্তু (4 Marks) | সকল বিষয়ে সঠিকভাবে লেখা হবে এবং প্রতিটি ক্ষেত্র পৃথকভাবে উল্লেখিত হবে। | প্রতিটি বিষয়ের উল্লেখ থাকলেও তথ্যের অপ্রতুলতা | প্রয়োজনীয় প্রতিটি ক্ষেত্রের উল্লেখের অভাব। | অসম্পূর্ণ কাজ। |
| গবেষণা (4 Marks) | প্রতিটি ক্ষেত্রের যথাযথ তথ্যের উল্লেখ। | কোন একটি বা দুটি ক্ষেত্রে তথ্যের অপ্রতুলতা। | প্রতিটি ক্ষেত্রেই তথ্যের অভাব। | ভুল তথ্য প্রদান |
| সৃজনশীলতা (4 Marks) | বিষয়বস্তুর সাথে সমতা বজায় রেখে মৌলিক চিন্তার প্রকাশ | বিষয়বস্তুর সাথে সমতা থাকলেও মৌলিকতার অভাব। | বিষয়বস্তুর সাথে সামঞ্জস্যহীন | শিরোনামের অনুপস্থিতি |
| শিল্পকলার প্রয়োগ (4 Marks) | পরিচ্ছন্ন ও উপযুক্ত প্রচ্ছদ, উপযুক্ত শিল্প ভাবনা | উপযুক্ত প্রচ্ছদ থাকলেও সৃজনশীলতার অভাব | উপযুক্ত প্রচ্ছদের অভাব | প্রচ্ছদের অনুপস্থিতি |

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|--------------------------|-------------------------------|--|--|-----------------------------------|
| উপস্থাপনা (4 Marks) | নিখুঁত , উপযুক্ত উপস্থাপনা | উপস্থাপনা কার্যে আত্মবিশ্বাসের অভাব | উপস্থাপনা কার্যে উপযুক্ত শব্দ চয়নের অভাব | ূপস্থাপনা কার্যে ভুলের বাহুন্স |
|--------------------------|-------------------------------|--|--|-----------------------------------|