PROJECT WORK (ICSE:2025-2026)

General Instructions for Students:

1. Each project should be **1200–1500 words** (except where specified).
2. Projects must be **handwritten or typed neatly** with proper headings.
3. Include: **Title page, Index, Certificate, Acknowledgement (optional), Introduction, Methodology, Analysis/Discussion, Conclusion, References, Charts/Diagrams/Tables**.
4. **Use original research, observations, surveys, interviews, or experiments** wherever applicable.
5. Follow a **logical flow**: Introduction → Objectives → Methodology → Data/Results → Analysis → Conclusion.
6. **Cite sources** (books, internet articles, journals) properly at the end.
7. Include **graphs, pie charts, tables, diagrams, or photographs** wherever relevant.

English Language

Topic: "Impact of Multilingual Digital Communication on the Writing Skills of Teenagers"

Description:
This project studies how teenagers frequently switching between languages in texting, social media, and messaging apps impacts vocabulary, grammar, and structured writing skills. Students will analyze examples from their own school and compare casual digital communication with formal writing.

Word Count: 1200–1500 words

How to Make the Project:

- **Introduction:** Define multilingual communication. Explain why studying its effect on writing skills is important. State the aim.

- **Methodology:** Conduct surveys/interviews with 20–30 students. Collect samples of text messages vs essay writing.
- **Analysis/Discussion:** Compare grammar, vocabulary, sentence structure, and reasoning. Highlight trends or patterns.
- **Conclusion:** Summarize findings, state positive and negative impacts, suggest ways to improve writing.
- **Extras:** Include sample messages, comparison tables, bar graphs showing frequency of mistakes.

English Literature

Topic: "Power, Persuasion, and Morality in Julius Caesar: An Analysis of Leadership Decisions in Acts III–V"

Description:
This project examines how Brutus and Antony make decisions under moral dilemmas and public pressure, and how their choices affect the outcome. Students will analyze speeches, actions, and public perception to draw lessons on leadership and persuasion.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Summarize Acts III–V, define ethics, persuasion, and leadership.
- **Methodology:** Analyze speeches (quotes), compare characters' decisions, note consequences.
- **Analysis/Discussion:** Highlight how public opinion and morality influenced outcomes.
- **Conclusion:** Summarize leadership lessons.
- **Extras:** Include character comparison charts, flowcharts of decisions vs outcomes.

History

Topic: "Unsung Heroes: The Role of Lesser-Known Regional Movements in India's Freedom Struggle (1920–1940)"

Description:
Focus on regional and localized movements that contributed to India's independence. Compare strategies, participation, and impact on national movements.

Word Count: 1200–1500 words

How to Make the Project:

- **Introduction:** Define grassroots movements and their significance. State aim.
- **Methodology:** Collect secondary data from books, newspapers, local archives, interviews.
- **Analysis/Discussion:** Compare different movements, leadership styles, strategies, outcomes.
- **Conclusion:** Summarize contributions and lessons.
- **Extras:** Timeline charts, photographs, maps of affected regions.

Civics

Topic: "Judicial Activism vs Judicial Restraint: How India's Supreme Court Shapes Society"

Description:
Study landmark cases showing how the Supreme Court influences social reforms and citizen rights. Compare activism (court intervenes proactively) with restraint (court avoids policy decisions).

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Define judicial activism and restraint. Explain relevance.
- **Methodology:** List 3–5 landmark cases with details: facts, verdict, social impact.
- **Analysis/Discussion:** Evaluate activism vs restraint, discuss societal effects.
- **Conclusion:** Summarize role of Supreme Court in reform.
- **Extras:** Include case tables, charts of social impact.

Geography

Topic: "Urban Heat Islands and Local Climate Change: A Case Study of My Town/City"

Description:
Study the effect of urbanization on temperature, green cover, and microclimate. Observe changes over time in your town/city.

Word Count: 1200–1500 words

How to Make the Project:

- **Introduction:** Define urban heat islands, climate change, and objective.
- **Methodology:** Observe local temperature variations, count trees, survey heat patterns.
- **Analysis/Discussion:** Compare temperature, green cover, pollution levels.
- **Conclusion:** Suggest urban planning and tree plantation measures.
- **Extras:** Include locality map, temperature tables, bar/pie charts.

Mathematics

Topic: "Mathematical Modelling of Student Lifestyle Factors Affecting Academic Performance"

Description:
Use statistical tools to study how sleep, study hours, and screen time affect grades. Apply correlation, regression, and graphs to analyze trends.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Explain importance of statistical modelling. State aim.
- **Methodology:** Collect data from classmates via surveys. Calculate mean, median, mode, correlation, and plot graphs.
- **Analysis/Discussion:** Highlight trends and correlations.
- **Conclusion:** Suggest lifestyle improvements to enhance academic performance.
- **Extras:** Include tables, scatter plots, pie charts.

Biology

Topic: "Assessment of Indoor Air Quality and Its Impact on Respiratory Health of Students in Schools"

Description:
Investigate dust, pollutants, and particulate matter in classrooms and study correlations with reported respiratory health issues.

Word Count: 1200–1500 words

How to Make the Project:

- **Introduction:** Define indoor air quality, pollutants, and health effects.
- **Methodology:** Measure air quality using basic tools (dust collectors, PM10 monitors). Conduct health surveys.
- **Analysis/Discussion:** Compare pollution levels with student health records.
- **Conclusion:** Suggest preventive measures like ventilation, plants, and hygiene.
- **Extras:** Charts of pollutants vs health issues, photographs.

Physics

Topic: "Investigating the Effect of Temperature on the Resistance of Different Conducting Materials"

Description:
Experimentally study how resistance changes with temperature in metals and alloys. Compare observations with theoretical predictions.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Explain Ohm's Law and effect of temperature on resistance. State aim.
- **Methodology:** Use conductors of different materials, measure current and voltage at various temperatures.
- **Analysis/Discussion:** Plot graphs of resistance vs temperature. Compare with theory.
- **Conclusion:** Summarize trends and applications in electrical circuits.

- **Extras:** Graphs, tables, circuit diagrams.

Chemistry

Topic: "Analysis of Heavy Metal Contamination in Drinking Water and Its Environmental Impact"

Description:
Test water samples for lead, copper, and iron. Compare urban and rural samples, study effects on health and environment.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Explain heavy metals, sources, and hazards.
- **Methodology:** Collect samples, test with kits or indicators, tabulate results.
- **Analysis/Discussion:** Compare levels, identify contamination sources, and assess environmental risks.
- **Conclusion:** Suggest water treatment and safety measures.
- **Extras:** Charts, tables, photographs of testing process.

Computer Applications

Topic: "Developing a Student Attendance and Performance Dashboard Using Simple Programming Tools"

Description:
Create a program to track attendance and grades, visualize trends, and predict outcomes.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Explain importance of digital tools in schools.
- **Methodology:** Collect sample data, write simple program logic, display charts/tables.

- **Analysis/Discussion:** Explain findings, patterns, and predictions.
- **Conclusion:** Show benefits of automation and data visualization.
- **Extras:** Screenshots, flowcharts, sample outputs.

Physical Education

Topic: "Effect of Aerobic and Anaerobic Exercises on Stress Levels and Academic Concentration in Teenagers"

Description:
Compare effects of different exercises on stress reduction and classroom performance.

Word Count: 1000–1200 words

How to Make the Project:

- **Introduction:** Define aerobic and anaerobic exercises. State objective.
- **Methodology:** Conduct exercises, observe concentration tests, measure stress levels via surveys.
- **Analysis/Discussion:** Compare results for both exercise types.
- **Conclusion:** Recommend suitable exercises for students.
- **Extras:** Charts comparing stress scores and concentration.

Hindi

Topic:
"कृत्रिम बुद्धिमत्ता (Artificial Intelligence) और मशीन लर्निंग का किशोरों की सीखने की आदत और सोचने की क्षमता पर प्रभाव"
(Impact of Artificial Intelligence and Machine Learning on Teenagers' Learning Habits and Thinking Skills)

Description (विवरण):

इस परियोजना में यह अध्ययन किया जाएगा कि **AI-आधारित लर्निंग ऐप्स, चैटबॉट्स और स्मार्ट टूल्स** जैसे ChatGPT, Google AI Tutor, और अन्य शिक्षा तकनीक किशोरों की **सीखने की आदत, सोचने की क्षमता और समस्या सुलझाने की क्षमता** को कैसे प्रभावित कर रहे हैं।

यह विषय छात्रों को **सर्वेक्षण, साक्षात्कार, डेटा संग्रह और तुलनात्मक विश्लेषण** करने के लिए प्रेरित करेगा।

Word Count (शब्द सीमा): 1200–1500 शब्द

Guidelines (निर्देश):

प्रस्तावना (Introduction)

- कृत्रिम बुद्धिमत्ता और मशीन लर्निंग का परिचय।
- आधुनिक शिक्षा में AI टूल्स का महत्व।
- उद्देश्य   लिखें:
  "यह अध्ययन करना कि AI और मशीन लर्निंग आधारित टूल्स किशोरों की सीखने की आदत और सोचने की क्षमता को कैसे प्रभावित करते हैं।"

विश्लेषण / चर्चा (Analysis / Discussion)

- AI टूल्स का सीखने की आदतों और सोचने की क्षमता पर प्रभाव।
- सकारात्मक और नकारात्मक प्रभाव।
- डिजिटल लर्निंग और पारंपरिक अध्ययन की तुलना।

निष्कर्ष (Conclusion)

- निष्कर्ष निकालें कि AI टूल्स सीखने में मददगार हैं पर संतुलित अभ्यास आवश्यक है।
- सुझाव दें कि डिजिटल और पारंपरिक अध्ययन का मिश्रण सर्वोत्तम परिणाम देता है।

✅विशेषताएँ:

1. हाल के डिजिटल और तकनीकी रुझानों से संबंधित।
2. शोध-उन्मुख और तुलनात्मक।
3. डेटा संग्रह और विश्लेषण की आवश्यकता।
4. इंटरनेट पर पूरा उत्तर नहीं मिलता, इसलिए छात्र स्वयं अनुसंधान करेंगे।