

# Lesson Plan and Assessment

## 1. Lesson plan

Week	Topic/Outline	Teaching-Learning Model	Program/Teaching Strategies	Content Management	Assessment
1-2	<b>Euclidean geometry</b> <ul style="list-style-type: none"> <li>- Euclid's Axioms and Common notions</li> <li>- The forty-Eight propositions of Book I                             <ul style="list-style-type: none"> <li>- Introduction to proof</li> <li>- Parallel lines</li> <li>- Congruent triangles and Similarity</li> <li>- Circles</li> </ul> </li> </ul>	S	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> </ul>
3-4	<b>Algebra and geometry (Analytic Geometry)</b> <ul style="list-style-type: none"> <li>- Lines and conic sections</li> </ul>	Online	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Quiz</li> </ul>
5-6	<b>Axiomatic Systems</b> <ul style="list-style-type: none"> <li>- Finite Geometry</li> <li>- Axiomatic Systems</li> </ul>	Online	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Quiz</li> </ul>
7-8	<b>Axiomatic Systems (cont.)</b> <ul style="list-style-type: none"> <li>- Consistency, Independence, and Completeness</li> </ul>	Online/ On Demand	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Quiz</li> </ul>

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	- Isomorphism of Models				
8	<b>Mid-term examination (On-site)</b>				
9 - 10	<b>A critique of Euclid</b> <ul style="list-style-type: none"> <li>- Tacit Assumptions, Flaws, and Omissions</li> <li>- Danger in diagram</li> <li>- The fifth postulate (the parallel postulate)</li> </ul>	Online	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Quiz</li> </ul>
11 - 12	<b>Neutral Geometry</b> <ul style="list-style-type: none"> <li>- Geometry without parallel axioms</li> <li>- Its Theorems</li> <li>- History of the parallel postulate</li> <li>- Independence of the parallel postulate</li> <li>- Non – Euclidean Geometry</li> </ul>	Online/ On Demand	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> <li>- GSP</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Assignment</li> </ul>
13 - 14	Non – Euclidean Geometry (Cont.)  <b>Geometric Transformations</b> <ul style="list-style-type: none"> <li>- Transformations : translations, reflections, and rotations</li> <li>- The Geometer’s Sketchpad</li> </ul>	Online/ On Demand	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> <li>- GSP</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- Assignment</li> </ul>

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15-16	<b>van Hiele theory of levels of Geometric Thinking</b> <ul style="list-style-type: none"> <li>- The model of levels</li> <li>- The properties of model</li> <li>- Phases of Learning</li> </ul>	Online/ On Demand	Google Meet	<ul style="list-style-type: none"> <li>- PowerPoint</li> <li>- YouTube VDO</li> <li>- Lecture Notes</li> <li>- Worksheet</li> <li>- GSP</li> </ul>	<ul style="list-style-type: none"> <li>- Attendance Record</li> <li>- System log</li> <li>- - Assignment</li> </ul>
16	<b>Final Examination (On-site)</b>				

**Note:** Lesson plan might be affected by the COVID-19 pandemic.