Lab Activities of Mathematics (2024-25)
IX

Month	Practical/Activity to be conducted

April	1. To find a hidden picture by plotting and joining the various points with given coordinates in a plane.
	2. To verify experimentally that if two lines intersect, then
	   a) the vertically opposite angles are equal.
	   b) the sum of two adjacent angles is 180°.
	   c) the sum of all four angles is 360°.

May	3. To verify experimentally that the sum of the angles of a given quadrilateral is 360°. 4. To verify experimentally the different criteria for congruency of the triangles using triangle kit.
July	5. To verify that the sum of the angles of a triangle is 180° using triangle kit. 6. To verify that the triangles on the same base and between the same parallels are equal in area using parallelogram and triangle kit.
August	7. To verify that the angles subtended by an arc of a circle at the centre are double the angle subtended by it at any point on the remaining part of the circle using circle kit. 8. To verify that the opposite angles of a cyclic quadrilateral are supplementary using quadrilateral cutouts.
October	9. To find the formula for the area of a trapezium experimentally. 10. To find the formula for the curved surface area of the right circular cylinder, experimentally.
November	11. To find the experimental probability of each outcome of a die when it is thrown 50 times. 12. To verify experimentally that the parallelograms on the same base and between the same parallels are equal in area.
December	13. To find the experimental probability of Heads appearing on a coin when it is thrown 20 times. 14. To form a cube using a net and to find the formula for its total surface area.
January	15. To find the formula for the curved surface area of the right circular cylinder, experimentally. (Revision.) 16. To find the experimental probability of each outcome of a die when it is thrown 50 times. (Revision.)
February	17. To find the experimental probability of Heads appearing on a coin when it is thrown 20 times. (Revision.) 18. To form a cube using a net and to find the formula for its total surface area. (Revision.)