**ADIGRAT UNIVERSITY**

**College of Natural and Computational Science**

**Department of Mathematics**

**A Project on theLegendre function and its application**

This project is submitted to the Department of Mathematics in

Partial Fulfillment of the Requirements for the Degree of Bachelor

of Science in Mathematics.

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**Abstract**

The objective of this project is dealing with Legendre differential equation, Legendre

polynomial of order k,recurrence relation formula and Rodrigues formula for Legendre

polynomial with the application of Legendre differential equation .

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