

RECITS Seminar

March 20th, 2024

From 10 a.m. to 11 a.m.

Seminar room, CAM building
Faculty of Mathematics, USTHB.

Speaker: Nacima Rosa AIT-AMRANE,

Title. New Results on Bicomplex Generalized Fibonacci Polynomials

Abstract.

In this work, we present some new results on generalized Fibonacci polynomials. First, we define Incomplete bicomplex and Hyper Bicomplex r -Fibonacci and r -Lucas polynomials, then we derive explicit formulas moreover several important algebraic properties including recurrence relations, generating functions, Binet formulas will be given.

Additionally, we state links between the incomplete Bicomplex r -Fibonacci and incomplete Bicomplex r -Lucas Polynomials also between the Hyper Bicomplex r -Fibonacci and Hyper Bicomplex r -Lucas Polynomials. Finally, we give some other identities.