

## CERTIFICATE



नेहरु आर्ट्स एंड साइंस कॉलेज कांजंगाड

NEHRU ARTS AND SCIENCE COLLEGE KANHANGAD

നെഹറു ആർട്സ് ആൻഡ് സയൻസ് കോളേജ് കാഞ്ഞങ്ങാട്

NAAC RE-ACCREDITED WITH 'A' GRADE

Government Aided College - Affiliated to Kannur University



This is to certify that the project report entitled "Synthesis and Characterization of Sodium Alginate – Copper ion based polymer Composite" is a bonafide work carried out by JOEL SEBASTIAN (REG NO. 228211) under the guidance of Dr. MOHANAN A, Assistant professor, Department of Chemistry, Nehru Arts and Science College, Kanhangad. The same is being submitted to the Post Graduation Department of Chemistry, St. Aloysius College (Autonomous) in partial fulfillment of the requirements for the award of Master of Science in Chemistry. No part of this thesis has been presented for the award of any other degree.

Dr. Mohanan A

Name and signature of the guide