Koneru Lakshmaiah Education Foundation
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DEPARTMENT OF CHEMISTRY

REPORT ON ALUMNI CONTRIBUTION

KLEF/ CHEM / IQAC - STUDENT/ SQ.9/ Alumni Contribution

KL Chem Neon Lights- Alumni Association

Date: 20-02-2021

Time:12:00 PM to 1: 00 PM

Link: https://meet.google.com/ctj-pybf-zie

Number of faculty attended: 9

Number of students and scholars attended: 30

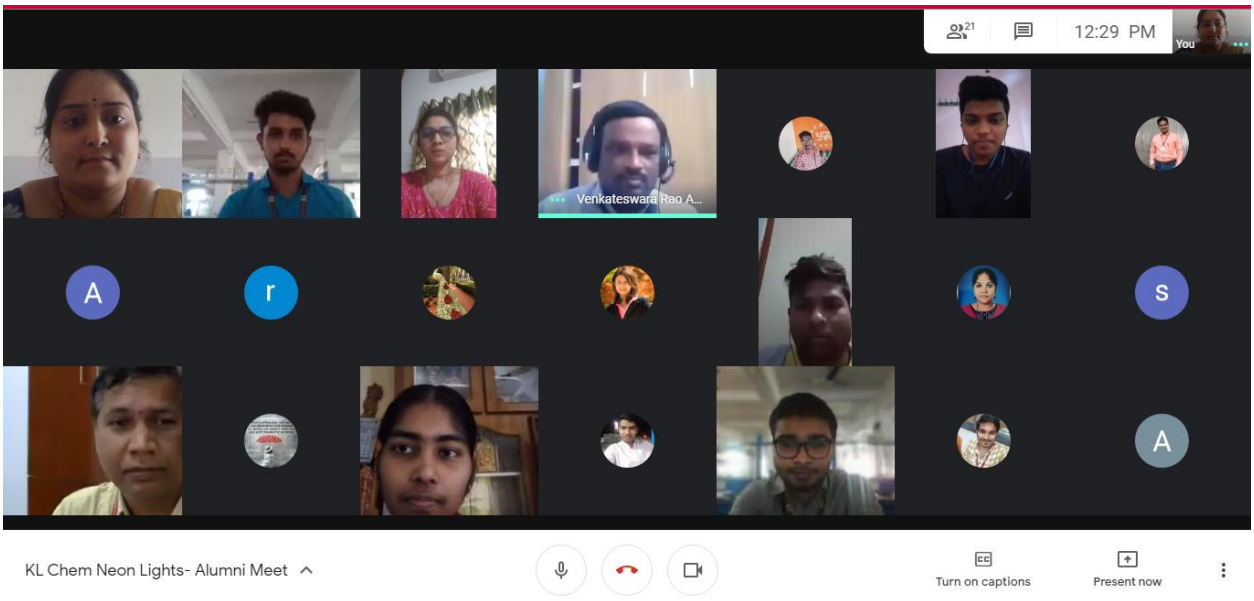
Number of Alumni attended: 11

Name of the activity: Guest Lecture by aluminus Mr. J. Madhusudan on "Bioactive Evaluation of *Neolamarckia Cadamba* fruits"

Summary:

Kadamb (*Neolamarkia cadamba* Roxb.) tree has wide spectrum of bioactivities such as analgesic, antipyretic, anti-inflammatory hypolipidemic and antidiabetic. However, very little is known about anti-microbial properties of its fruits. Therefore, the present study was undertaken to investigate Phytochemical constitution, antibacterial and antifungal properties of *N. cadamba* fruits. Methanol and ethylacetate Extracts of the fruits are prepared and were used to investigate Phytochemical constituents and antimicrobial properties. Out of the selected solvent extracts, the methanolic extract(1000µg/ml) showed maximum zone of inhibition (19.3 mm) against Bacillus subtilis and minimum (14.9 mm) against Enterobacter aerogenes. Ethylacetate extract showed maximum zone of inhibition against Staphylococcus aureus(16.7mm) and minimum against Pseudomonas aeruginosa(11mm). The preliminary phytochemical analysis showed the presence of phytosterols, tannin, phenol, saponins and flavonoids in the methanolic extract. The

antimicrobial effects of *Neolamarckia cadamba* fruit extracts indicate that this wild cinchona contains substantial number of bioactive agents are responsible for antimicrobial efficacy. The study also concludes that methanolic extract of *N. cadamba* fruit can be used as a potential antimicrobial source for various infections.



Faculty In Charge **Head of the Department**