

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM-590 018



PROJECT WORK REPORT

(10CH85)

“ISOLATION OF PLANT STEROLS FROM MICROWAVE PRETREATED JATROPHA CAKE”

Sponsored by

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Student Project Programme

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BACHELOR OF ENGINEERING IN CHEMICAL ENGINEERING

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ABSTRACT

Since ancient times plants have been used as source of therapeutic agents. Plants are playing a significant role in the indigenous system of medicine to combat diseases. Plants are the richest sources of bioactive organic chemicals on earth. They are the store house of secondary metabolites such as alkaloids, terpenoids, steroids and flavonoids etc. The traditional medicine involves the use of different plant extracts or bioactive chemicals. This type study provides the health application at affordable cost. This such as ethnomedicine keenly represents one of the best avenues in searching new economic plants for medicine. In keeping this view in mind the present investigation is carried out in *Jatropha Curcas* seed collected in February 2014 from Jatropha cake was collected from Krishi Vigyan Kendra in JNN COLLEGE OF ENGINEERING, Shimoga. Karnataka. The results confirms the presence of different sterols and Anti-microbial activity of Jatropha cake. Ethanol is the best solvent and microwave pre-treatment of cake improved the yield of sterol.