

Turbines

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SECAB.I.E.T, MECHANICAL ENGINEERING
DEPARTMENT, BAGALKOT ROAD,
NAURASPUR, VIJAYAPURA- 586109

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From HOD'S Desk

It is my pleasure to welcome you to the department of mechanical engineering at the SECAB institute of engineering and technology Vijaypur. Mechanical engineering has been thought of traditionally as a professional discipline and the mechanical engineers of today are multidisciplinary, with knowledge from other branches of engineering.

The academic programmes of the department reflect not only the core areas of mechanical engineer but also the research specialization of the faculty. All the faculties are working in close co-operation while retaining individual identities. We provide our students with a solid engineering education that focuses on creativity, innovation, strong ethical responsibility and place equal emphasis on developing strong leadership qualities in our students.

"Education is the most powerful weapon which you can use to change the world"

As far as the faculties of the department is concerned, I am very happy to inform you that, we have great team of well qualified, dedicated, devoted, young, energetic and dynamic faculty members who are very brilliant in handling the challenging subjects in a very easy and graspable way by applying a various new teaching methods and intelligible demonstrations during the course of work. Further, Faculty pay dedicated attention to vigorous research and students' projects engendering in them untiring efforts, indomitable will, immense patience and soft skills as desired by industry.



Figueiredo Aleutan
4th SEM

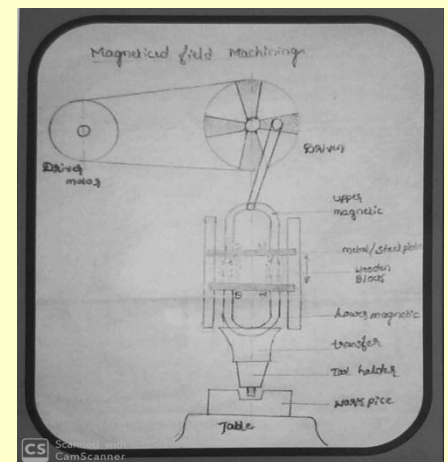
Vegetable Oils as Alternate Fuels

Vegetable oils have become more attractive recently because of their environmental benefits and the fact that it is made from renewable resources. More than 100 years ago, Rudolph Diesel tested vegetable oil as the fuel for his engine. Vegetable oils have the potential to substitute for a fraction of the petroleum distillates and petroleum based petrochemicals in the near future. Vegetable oil fuels are not now petroleum competitive fuels because they are more expensive than petroleum fuels. However, with the recent increases in petroleum prices and the uncertainties concerning petroleum availability, there is renewed interest in using vegetable oils in diesel engines. The diesel boiling range is of particular interest because it has been shown to reduce particulate emissions significantly to diesel. There are more than 350 oil bearing crops identified, among which only sunflower, safflower, soya bean, cottonseed, rapeseed and peanut oils are considered as potential alternative fuels for diesel engines.

Manjunat Veerapur.
6th SEM

MAGNETIZED FIELD MACHINING

This is a type of nontraditional machining. The magnetized machine consists of the magnets, wooden blocks, tool holder, tool, connecting rod, and two different types of pulley and springs. The small pulley is connected to the motor. Large pulley and small pulley are in contact by open belt drive. The connecting rod is connecting the upper magnet and large pulley. When the pulley is rotating then the magnet starts to reciprocate. When the upper magnet moves downwards the secondary magnet also moves downwards and the tool as a reciprocating motion. The secondary magnet moves upward by the spring. The spring is set in wooden block. The magnets are set opposite of different poles. The secondary magnet is attached with tool holder. When improve the reciprocating motion increases the material removal rate. This process is used for soft material.





Nasir Ansar,

6th SEM

I Became an Engineer

A I Had a Dream I Became an Engineer
Just a Dream until My Back Papers I Clear

I Go To Class to Enhance My Caliber
Listen To the Teachers Lecture They
Deliver

Every time A Next Attempt to Understand
Thermal, Manufacturing & Design
My Mind By Virtue Of Flash Point
Sometimes Only Shine

Sob serving My Hard Labora Teacher
Guided Me Being Pity

How to Enhance My Modulus of Elasticity
& reduce Modulus of Rigidity

Normalized All the Attendance Passing
Subjects Fear

I Was Encouraged To Shift to a Higher Gear
Today May Be I Am a Rough Cut ith Surface
Coarse.

Butt Shall Get Polished One Day of Course
Filed My Brain Removed All the Rust
Avoided Wasting Of Time Studied Just

Accelerated M Speed Tolerated All the
Stress

Came Across Various Material Properties
Stiffness, Toughness, Hardness

Labored Hard Day & night W'hich Had Not
Done Ever

Completed All the Jobs Using Lathe,
Miling & Shaper
Applied Coolant to My Brain Lubricated All
the Bearing

Studied Through Out the Semester under
Teachers Guidance and Friends Sharing

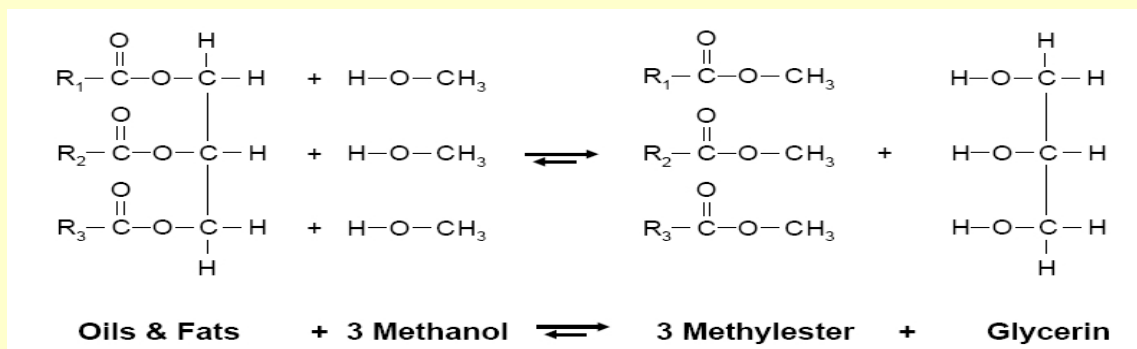
Being a Student Dedicated & Sincere Over
Came the Limitations and Fear Ultimately I
Became an Engineer



Ravikiran J
8th SEM

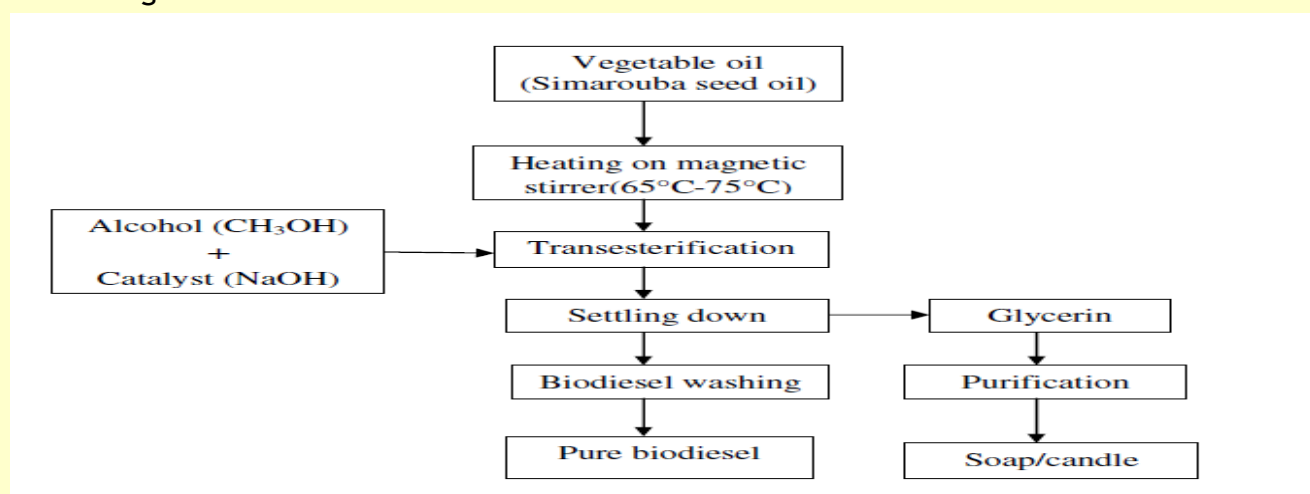
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Transesterification reaction

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Flow chart of Biodiesel production



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