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Here is the list of project titles 2018 and 2019.



**DOORS OF TECHNOLOGY:**

- AGRICULTURAL BASED PROJECTS
- AUTOMOBILE BASED PROJECTS
- COMPOSITE MATERIAL BASED PROJECTS
- INDUSTRIAL BASED PROJECTS
- MECHATRONICS BASED PROJECTS
- SOLAR AND POWER GENERATION CONCEPTS
- AERONAUTICAL BASED PROJECTS
- PEDAL OPERATED BASED PROJECTS
- PNEUMATICS AND HYDRAULICS BASED PROJECTS

Projects are available for all branches of **ENGINEERING, DIPLOMA, MCA/BCA, and MSc/BSc.**

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Here we provide **MECHANICAL ENGINEERING 2018 project lists** with abstracts. we do train a student from basic level of mechanical engineering which bases the project that includes live project development class and also detailed information buy our S.M.E ( Subject matter experts ) , projects implementation, final project demo . Wide variety of **COMPOSITE MATERIAL** based projects, both real time and prototype is been developed.

If you have questions regarding these projects feel free to contact us. You may also ask for abstract of a project idea that you have or want to work on.

The **own projects idea** for diploma and Engineering students can also encouraged here.

## 2018 – 19 COMPOSITE MATERIAL BASED PROJECTS

### **TITLE - DEVELOPMENT OF COMPOSITE USING CHOPPED E GLASS AND 360 GSM E GLASS**

A hybrid composite is a combination of two or more different types of fibre in which one type of fibre balance the deficiency of another fibre.

Composites of various compositions with three different fibre orientation (0°, 30° and 40°) are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and orientation on the performance of jute/glass fibre reinforced epoxy based hybrid composites. The developed hybrid composites undergo different kinds of tests. The result shows hybrid composites having good strength and stiffness compared to natural hybrid composites. The chopped e glass and 360 gsm is used for the development of the composite material using resin and hardner .

### **TITLE - DEVELOPMENT OF COMPOSITE USING COCONUT COIR AND EPOXY RESIN**

It is desired to produce low cost, high quality, sustainable and environmental friendly materials. It has been found from the researched study that the lower mechanical properties and poor compatibility between polymer matrix and fibers. Composite materials are one of the most favoured solutions to this problem in the field. We have used coconut coir that is pretreated with chemical and is used in developing the composite material .

**TITLE - DEVELOPMENT OF E GLASS JUTE EPOXY REINFORCED NATURAL HYBRID COMPOSITE ( TC01)**

Composites cannot be made from constituents with divergent linear expansion characteristics. Choice of fabrication method depends on matrix properties and the effect of matrix on properties of reinforcements.

It is desired to produce low cost, high quality, sustainable and environmental friendly materials. It has been found from the researched study that the lower mechanical properties and poor compatibility between polymer matrix and fibers.

E GLASS and JUTE are used in the process and are developed using hand lay up technique . angle orientation is done during the lay up technique.

**TITLE - DEVELOPMENT OF EGLASS AND RUBBER POWDER COMPOSITE MATERIAL ( TC02)**

Now-a-days, the natural fibres from renewable natural resources offer the potential to act as a reinforcing material for polymer composites alternative to the use of glass, carbon and other man-made fibres. A hybrid composite is a combination of two or more different types of fibre in which one type of fibre balance the deficiency of another fibre.

Composites of various compositions with three different fibre 0, 5, 10 , 15 percentages are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and percentage on the performance of composites. The developed composites undergo different kinds of tests. The result shows composites having good strength and stiffness compared to natural hybrid composites.

**TITLE – DEVELOPMENT OF E GLASS AND CHICKEN FEATHER COMPOSITE ( TC03)**

Now-a-days, the natural fibres from renewable natural resources offer the potential to act as a reinforcing material for polymer composites alternative to the use of glass, carbon and other man-made fibres. A hybrid composite is a combination of two or more different types of fibre in which one type of fibre balance the deficiency of another fibre.

Composites of various compositions with three different fibre 0, 5, 10 , 15 percentages are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and percentage on the performance of composites. The developed composites undergo different kinds of tests. The result shows composites having good strength and stiffness compared to natural hybrid composites.

**Keywords: Renewable, Mechanical Properties, filler material ratios.**

**TITLE - DEVELOPMENT OF COMPOSITE MATERIAL USING E GLASS AND E WASTE MATERIL ( TC04)**

The main concern of this review will be to examine the causes of degradation of polymeric components from the completion of fabrication to ultimate failure.

Composites of various compositions with three different filler material orientation as 0 , 5 and 10 percentage are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and orientation on the performance of eglass fibre reinforced epoxy based hybrid composites. The developed hybrid composites undergo different kinds of tests. The result shows hybrid composites having good strength and stiffness compared to natural hybrid composites.

**TITLE - DEVELOPMENT OF COMPOSITE MATERIAL USING SUGARCANE BAGASSE, SISAL AND JUTE MATERIAL WITH ANGLE ORIENTATION ( TC05)**

Composites of various compositions with three different fibre orientation (0°, 30° and 40°) are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and orientation on the performance of jute/glass fibre reinforced epoxy based hybrid composites. The developed hybrid composites undergo different kinds of tests. The result shows hybrid composites having good strength and stiffness compared to natural hybrid composites.

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