

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: THERMAL ENGINEERING

| S. NO | PROJECT CODE | PROJECT TITLES | APPLICATION |
|--------------|---------------------|---|------------------------|
| 1 | ITMT01 | Cyclone separator with blower | Industry |
| 2 | ITMT02 | Fabrication of miniature boiler | Industry |
| 3 | ITMT03 | Solar still using PCM materials | Houses |
| 4 | ITMT04 | Fabrication of three in one air-conditioner | Houses |
| 5 | ITMT05 | Automated outdoor mist control system | Environment |
| 6 | ITMT06 | Fabrication and performance analysis of solar water heater using porous medium and agitator | Houses & industry |
| 7 | ITMT07 | Solar aided portable vacuum desalination system | Houses |
| 8 | ITMT08 | Solar powered water lifter using giant wheel method | Agriculture & industry |
| 9 | ITMT09 | Multi stage Hydro electric power plant | Power Plant |
| 10 | ITMT10 | Swing electricity power generation system | Power generation |
| 11 | ITMT11 | Fabrication of shell and tube heat exchanger | Exchanger |
| 12 | ITMT12 | Design and fabrication of mini wind mill | Power Generation |
| 13 | ITMT13 | Steam power plant | Power Generation |
| 14 | ITMT14 | Fabrication of Reactor for converting Plastic into useful Fuel | Fuel System |
| 15 | ITMT15 | Sea wave Power generation System | Power Generation |

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: AUTOMOBILE ENGINEERING

| S. NO | PROJECT CODE | PROJECT TITLES | APPLICATION |
|--------------|---------------------|---|--------------------|
| 1 | ITMA01 | Fabrication of Treadmill Bicycle | Vehicle |
| 2 | ITMA02 | Three Axis Modern Pneumatic Trailers | Vehicle |
| 3 | ITMA03 | Automatic braking and bumper system for automobiles | Vehicle |
| 4 | ITMA04 | Neodymium Magnetic Shock Absorber for automotive | Vehicle |
| 5 | ITMA05 | Automatic Tyre Pressure Inflation System for automotive | Vehicle |
| 6 | ITMA06 | Fabrication Of Solar Powered Wheel Chair For Disable Person | Human |
| 7 | ITMA07 | Exhaust gas heat recovery for Power generation and Braking | Vehicle |
| 8 | ITMA08 | Sensor operated electromagnetic clutch and braking system | Vehicle |
| 9 | ITMA09 | Design and Fabrication of chainless bicycle | Vehicle |
| 10 | ITMA10 | Easy folding mobile cycle | Vehicle |
| 11 | ITMA11 | Fabrication of Solar Powered battery cycle | Vehicle |
| 12 | ITMA12 | Performance of a Radiator with Water and Nanofluid | Cooling System |
| 13 | ITMA13 | Hydrogen Engine | Vehicle |
| 14 | ITMA14 | Production of Electric Power through Shock Absorber | Power Generation |
| 15 | ITMA15 | On Board Diagnostic Control For Automobile Engine | Engine Condition |

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: FABRICATION AND MANUFACTURING

| S. NO | PROJECT CODE | PROJECT TITLES | USES |
|--------------|---------------------|---|-------------|
| 1 | ITMF01 | Solar Tracking System In Manual Rice Trans Planter | Agriculture |
| 2 | ITMF02 | Semi-automatic Ironing Machine | Industry |
| 3 | ITMF03 | Four Way Hacksaw | Industry |
| 4 | ITMF04 | Pepper Separating Machine | Industry |
| 5 | ITMF05 | Manually operated Road Cleaner | Environment |
| 6 | ITMF06 | Design & fabrication of Vertical and Horizontal axis wind mill for low end power generation | Industry |
| 7 | ITMF07 | Glass Cleaning Robot Using Scissor Lift Mechanism | Industry |
| 8 | ITMF08 | Sand Cleaner Robot Using Vibrating Mechanism | Industry |
| 9 | ITMF09 | Multi Spindle drill Head | Industry |
| 10 | ITMF10 | Automatic Vegetable cutting Machine | Hotel |
| 11 | ITMF11 | Fabrication of Exoskeleton Hydraulic support (Chair less chair) | Human |
| 12 | ITMF12 | Fabrication of Mechanical Spider | Sewage |
| 13 | ITMF13 | Fabrication of both cutting punching and grinding machine by electric power | Industry |
| 14 | ITMF14 | Fabrication of Painting Machine using rack and Pinion Mechanism | Painting |
| 15 | ITMF15 | Multi Axis Conveyors | Industry |

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: HYDRAULICS AND PNEUMATICS SYSTEM

| S. NO | PROJECT CODE | PROJECT TITLES | APPLICATION |
|-------|--------------|---|-------------|
| 1 | ITMH01 | Compressed Air Vehicle | Vehicle |
| 2 | ITMH02 | Automatic Load Carry Robot For Industries Using Pneumatic Scissor Lift Mechanism | Industry |
| 3 | ITMH03 | Automatic Sensor Operated Pneumatic Braking System | Vehicle |
| 4 | ITMH04 | Pneumatic mobile crane | Industry |
| 5 | ITMH05 | Multi axis welding mechanism | Industry |
| 6 | ITMH06 | Design and fabrication of pneumatic tricycle | Human |
| 7 | ITMH07 | Zig zag pneumatic lift | Industry |
| 8 | ITMH08 | Design and fabrication of both cutting punching and grinding machine by pneumatic power | Industry |
| 9 | ITMH09 | Easy handled handicapped vehicle by pneumatic power | Disabled |
| 10 | ITMH10 | Design and fabrication of pneumatic engine | Automobile |
| 11 | ITMH11 | Pneumatic Injection moulding Machine | Industry |
| 12 | ITMH12 | Compressed air production and driven Bicycle | Vehicle |
| 13 | ITMH13 | Pneumatic Inbuilt Jack using Rack and Pinion | Vehicle |
| 14 | ITMH14 | Fabrication of Pneumatic Engine | Vehicle |
| 15 | ITMH15 | Pneumatic multi axis Material handling End Effector | Industry |

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: AUTOMATION AND MECHATRONICS

| S. NO | PROJECT CODE | PROJECT TITLES | USES |
|-------|--------------|---|--------------|
| 1 | ITMM01 | Pick And Place Robot Using Conveyor Line Follower Mechanism | Industry |
| 2 | ITMM02 | Fabrication of over speed indication and automated braking system for automotives | Vehicle |
| 3 | ITMM03 | Vehicle ignition using face recognition system | Vehicle |
| 4 | ITMM04 | Automatic work piece counting with belt conveyor | Industry |
| 5 | ITMM05 | Automatic paint spraying robot using Scissor lift Mechanism | Industry |
| 6 | ITMM06 | Automatic Brake Failure And Engine Overheating Alarm | Vehicle |
| 7 | ITMM07 | Remote control wheel chair cum bed | Human |
| 8 | ITMM08 | Automatic board cleaner | Seminar Hall |
| 9 | ITMM09 | Poor Quality rejection using Conveyor automation | Industry |
| 10 | ITMM10 | Automatic water spraying machine | Agricultural |
| 11 | ITMM11 | Automatic Pipe Crawling Robot for Inspection Purpose | Oil Industry |
| 12 | ITMM12 | Drainage Cleaning Robot | Sewage |
| 13 | ITMM13 | Automatic Farm Genesis Robotic system | Agricultural |
| 14 | ITMM14 | Robotic Arm for various Material Handling Purpose | Industry |
| 15 | ITMM15 | Automatic garbage Separation system | Municipal |

TECHNOLOGY: MECHANICAL ENGINEERING

DOMAIN: AGRICULTURAL

| S. NO | PROJECT CODE | PROJECT TITLES | APPLICATION |
|-------|--------------|--|--------------|
| 1 | ITAG01 | Design and Fabrication of Grass cutter for agricultural | Agriculture |
| 2 | ITAG02 | Solar Agricultural water pumping system | Agriculture |
| 3 | ITAG03 | Solar operated sprayer for agricultural purpose | Agriculture |
| 4 | ITAG04 | Hydro pump for agricultural application | Agriculture |
| 5 | ITAG05 | Fabrication of pedal power ram type water pumping machine | Irrigation |
| 6 | ITAG06 | Manual operated seeding machine | Agricultural |
| 7 | ITAG07 | Sugarcane bud chipper | Agricultural |
| 8 | ITAG08 | Coconut tree climbing and cutting machine | Agricultural |
| 9 | ITAG09 | Solar grass cutter with linear blades by using scotch yoke mechanism | Horticulture |
| 10 | ITAG10 | Agricultural Farm Vehicle | Agricultural |