

2019

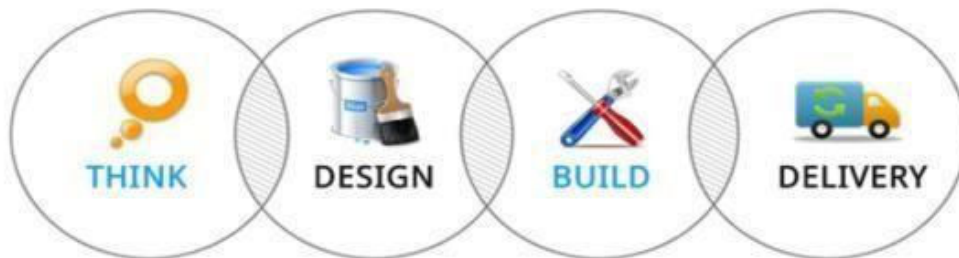
MECHANICAL PROJECTS TITLES



TECHNOFIST
MECHANICAL LIST
2018-2019

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MECHANICAL PROJECTS LIST 2019

	2019 AUTOMOBILE BASED PROJECTS
TMA001	FABRICATION OF INTELLIGENT REVERSE BRAKING SYSTEM.
TMA002	FABRICATION OF AIR BREAK SYSTEM USING EXHAUST GAS.
TMA003	FABRICATION OF ALL TERRIAN VEHICLES
TMA004	FABRICATION OF COMPRESSED AIR VEHICLE.
TMA005	FABRICATION OF REAL TIME ADVANCED 5 IN 1 MULTIPURPOSE AGRICULTURAL VEHICLE-(AGRI VEHICLE)
TMA006	FABRICATION OF REGENERATIVE BREAKING SYSTEM – ELECTRIC
TMA007	FABRICATION OF ELECTRONIC CONTROLLED ZERO RADIUS TURNING VEHICLE
TMA008	DESIGN AND DEVELOPMENT INCREASING ENGINES EFFICEINCY BY INTRODUCING TURBO CHARGER
TMA009	FABRICATION OF VEHICLE SAFETY USING POWER WINDOW MECHANISM
TMA010	FABRICATION OF PNEUMATIC BRAKING SYSTEM USING ULTRASONIC SENSOR
TMA012	FABRICATION OF FLYWHEEL BASED REGENERATIVE BREAKING SYSTEM
TMA013	FABRICATION OF AUTOMATED METRO TRAIN
TMA014	FABRICATION OF UNMANNED FIGHTER FOR ARMY OPERATIONS
TMA015	FABRICATION OF REMOTE CONTROLLED WHEEL CHAIR CUM BED FOR PHYSICALLY HANDICAPPED
TMA016	FABRICATION OF AUTOMATIC MATERIAL HANDLING ROBOT
TMA017	FABRICATION OF AUTO GUIDED VEHICLE

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TMA018	FABRICATION OF VOICE CONTROLLED WHEEL CHAIR
TMA019	FABRICATION OF MOTORIZED SCREW JACK
TMA020	FABRICATION OF EFFICIENT CAR PARKING FOR FOUR WHEEL
TMA021	FABRICATION OF RAILWAYGATE CONTROLLER
TMA022	FABRICATION OF MOTORIZED HYDRAULIC JACK
TMA023	FABRICATION OF CAR THEFT AND ACCIDENT PREVENTER
TMA024	FABRICATION OF ELCTROMAGNETIC BREAK SYSTEM FOR VEHICLES
TMA025	FABRICATION OF HYBRID VEHICLE
TMA026	FABRICATION OF INTELLIGENT PNEUMATIC BUMPER TO RADUCE COLLION EFFECT
TMA027	FABRICATION OF AUTOMATIC INBUILT CAR COVER
TMA028	FABRICATION OF INTELLIGENT CAR ROOF TOP SOLAR
TMA029	FABRICATION OF REALTIME STAIR CLIMBING WHEELCHAIR
TMA030	FABRICATION OF 360 DEGREE ROTATION TIPPING BULLOCKART
TMA031	QUADCOPTER / DRONE WITH PESTICIDE SPRAYER OR SURVAILLANCE
TMA032	DEVELOPMENT OF ANDROID / REMOTE OPERATED SCREW JACK
TMA032	FABRICATION OF FOUR WHEEL STEERING VEHICLE
TMA033	DESIGN AND DEVELOPMENT OF TRAIN TRACK ELECTRICTY GENERATION
TMA034	DESIGN AND DEVELOPMENT OF ADVANCED JET ENGINE
TMA035	FABRICATION OF AUTOMATIC GEAR SHIFTING IN TWO WHEELER USING SWITCHES
TMA036	FABRICATION OF ROTARY CAR PARKING SYATEM
TMA037	DEMONSTARTION OF GEAR CHANING MECHANISM IN FOUR WHEELERS
TMA038	DEMONSTRATION OF STEERING (ACKERMAN'S) MECHANISM
TMA039	DEVELOPMENT OF SOLAR SEGAWAY

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TMA040	MANUAL ROAD SWEEPER
TMA041	AUTOMATIC AIR PRESSURE MONITORING SYSTEM .
TMA042	BUTTON OPERATED GEAR SHIFTING IN 2 WHEELERS
TMA043	DEVELOPMENT OF MOBILE SELF STABILISING PLATFORM
TMA044	DEVELOPMENT OF SMART HUMPS WITH IR SENSOR
TMA045	DEVELOPMENT OF RFID BASED SPEED CONTROLLER

	2019 AGRICULTURAL / IRRIGATIONAL BASED PROJECTS
	FABRICATION OF IC ENGINE POWERED MINI POWER TILLER AND WEEDER
TMAI001	FABRICATION OF AUTOMATIC SEED SOWING MACHINE
TMAI002	FABRICATION OF ADVANCED 5 IN 1 MULTI PURPOSE AGRICULTURALROBOTIC VEHICLE (AGRIBOT)
TMA003	FABRICATION OF REALTIME ADVANCED 5 IN 1MULTI PURPOSE AGRICULTURAL VEHICLE – AGRI VEHICLE, DC MOTOR OR PETROL ENGINE OPERATED
TMA004	FABRICATION OF WHEAT HARVESTING MACHINE
TMA005	FABRICATION OF ARECA NUT FEELING MACHINE
TMA006	FABRICATION OF SOLAR OPERATED PESTICIDE SPRAYER
TMA007	FABRICATION OF WHEAT HARVESTING MACHINE
TMA008	FABRICATION OF SOLAR OPERATED GRASS CUTTING MACHINE
TMA009	FABRICATION OF TENDER COCONUT CHOPPING AND CUTTING MACHINE
TMA010	DESIGN AND FABRICATION OF SUGARCANE HARVESTER USING SAW CHAIN (SOLAR OPERATED)
TMA011	FABRICATION OF SEMI AUTOMATIC PLOUGHING AND RESIPROCATING WATER SPRAYER
TMA0012	FABRICATION OF AUTOMATIC DIGGING AND SEED SOWING ROBOT FOR AGRICULTURAL FIELD.
TMA0013	FABRICATION OF GROUNTNUT THRUSHER
TMA0014	FABRICATION OF AUTOMATIC DETECTION AND PREVENTION OF ANIMALS IN AGRICULTURAL FIELDS (PEPPER SPRAY)
TMA0015	FABRICATION OF ENIGNED POWERED MINI PLOUGING MACHINE
TMA0016	DEVELOPMENT OF AUTOMATIC WATER PUMP

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TMA0017	FABRICATION OF MAIZE HARVESTING MACHINE
TMA0018	DEVELOPMENT OF FRUIT PLUCKING STICK
TMA0019	DEVELOPMENT OF ARECANUT HARVESTING MACHINE
TMA0020	DEVELOPMENT OF SWARM ROBOT FOR AGRICULTURAL PURPOSES
TMA0021	FABRICATION OF TENDER COCONUT PUNCHING MACHINE
TMA0022	DEVELOPMENT OF AUTOMATIC FRUITER JUICER

	2019 INDUSTRIAL / PRODUCTION / AUTOMATION BASEDPROJECTS
TMIP001	FABRICATION OF 3 IN1 MULTIPURPOSE MECHANICAL MACHINE USING WHITWORTH MECHANISM
TMIP002	FABRICATION OF AUTOMATIC PVC PIPE CUTTING MACHINE
TMIP003	FABRICATION OF AUTOMATED CONVEYER FOR QUALITY CONTROL
TMIP004	FABRICATION OF AUTOMATIC 2 ,3 POINT DRILL MACHINE
TMIP005	FABRICATION OF BOTTLE FILLING SYSTEM
TMIP006	FABRICATION OF AUTOMATIC DRILLING AND TAPPING MACHINE
TMIP007	FABRICATION OF AUTOMATIC OBJECT COUNTING MACHINE
TMIP008	FABRICATION OF BELT CONVEYOR
TMIP009	FABRICATION OF CONVEYOR BELT WITH AUTOMATIC PICK AND PLACE AND DIGITAL COUNTER

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TMIP010	FABRICATION OF CEMENT PLASTERING MACHINE
TMIP011	FABRICATION OF HELICAL TURBINE (FOR BOTH WIND AND WATER)
TMIP011	FABRICATION OF MILLING MACHINE
TMIP012	FABRICATION OF ROTATING FORKLIFT
TMIP013	FABRICATION OF SCRAPE COLLECTING AND DUST CLEANING MACHINE – REMOTE CONTROLLED
TMIP014	FABRICATION OF MAGNETIC MATERIAL COLLECTING TROLLEY USING ELECTROMAGNETIC
TMIP015	FABRICATION OF REMOTE OPERATED DRILL MACHINE (HYBRID) – SOLAR AND WIND
TMIP016	FABRICATION OF SAFEST SAW MILL – LIFE SAVER FOR INDUSTRIAL APPLICATIONS (SOLAR OPERATED)
TMIP017	FABRICATION OF VOICE OPERATED ELEVATOR WITH EMERGENCY INDICATOR
TMIP018	FABRICATION OF AUTOMATIC CONVEYOR BELT WITH PICK AND PLACE AND DIGITAL COUNTER
TMIP019	FABRICATION OF MULTI-PURPOSE OR 3 IN 1 MECHANICAL MACHINE (DRILLING, SHAPING & HACKSAW)
TMIP020	FABRICATION OF PICK AND PLACE ROBOT WITH GRIPPER FOR INDUSTRIAL APPLICATIONS
TMIP021	FABRICATION OF LINE FOLLOWING ROBOT WITH FORK LIFT
TMIP022	FABRICATION OF AUTOMATIC 2 AND 3 POINT DRILL MACHINE
TMIP023	FABRICATION OF DIGITAL COUNTING MACHINE IMPLEMENTING CONVEYOR USING METAL DETECTION SENSOR
TMIP024	FABRICATION OF BOARD CLEANER MECHANISM USING RACK AND PINION
TMIP025	FABRICATION OF AUTOMATIC HAND WASH AND SOAP SOLUTION
TMIP026	FABRICATION OF PORTABLE VEGETABLE CUTTER AND SLICER
TMIP027	FABRICATION OF ROTATING FORK LIFT
TMIP028	FABRICATION OF LINE FOLLOWING ROBOT WITH FORKLIFT
TMIP029	FABRICATION OF GLASS CLEANING MECHANISM
TMIP030	FABRICATION OF GROUND NUT THRUSTER
TMIP031	FABRICATION OF FULLY AUTOMATIC CHAPATI MAKING MACHINE
TMIP032	FABRICATION OF AYURVEDIC ENIGMA STIRRING MACHINE

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TMIP033	FABRICATION OF MULTIPLE MACHINING USING CRANCHING (DRILLING& CUTTING)
TMIP034	DESIGN AND FABRICATION OF ELECTROMAGNETIC ENGINE
TMIP035	FABRICATION OF AUTOMATIC SEWAGE CLEANER
TMIP036	FABRICATION OF REAL TIME RAGI BALL MAKING MACHINE
TMIP037	FABRICATION OF AUTOMATIC FOOT CLEANER
TMIP038	DESIGN AND FABRICATION OF GEARLESS POWER TRANSMISSION
TMIP039	FABRICATION OF TMT BAR BENDING MACHINE (PNEUMATIC)
TMIP040	FABRICATION OF RAGI BALL MAKING MACHINE
TMIP041	FABRICATION OF SHEET CUTTING MACHINE USING GENEVA MECHANISM
TMIP042	DEVELOPMENT OF ABRASIVE JET MACHINE
TMIP043	FABRICATION OF AUTOMATED CLOSET CLEANING MACHINE
TMIP044	DEVELOPMENT OF AUTOMATED RATION VENDING MACHINE
TMIP045	DESIGN AND FABRICATION OF EROSIVE WEAR TESTING MACHINE
TMIP046	DEVELOPMENT OF FLOOR CLEANING MACHINE
TMIP047	FABRICATION OF OVER HEAD TANK CLEANING MACHINE
TMIP048	FABRICATION OF AUTOMATIC PNEUMATIC CAN CRUSHER
TMIP049	FABRICATION OF PNEUMATIC RAMMING MACHINE

	2019 MECHATRONICS/ ROBOTICS PROJECTS
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TMM001	FABRICATION AND DEVELOPMENT OF ROBOT THAT APPROACHES PEDESTRIANS
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TMM002	FABRICATION OF AUTOMATIC FIRING BASED ON MICRO CONTROLLER 1
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TMM003	FABRICATION OF AUTOMATIC PAGE TURNER
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TMM004	FABRICATION OF AUTOMATIC WINDOW OR GLASS CLEANING ROBOT
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TMM005	FABRICATION OF WHITE BOARD CLEANING MECHANISM
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TMM006	FABRICATION OF AUTOMATIC FOOT DUST CLEANING MACHINE
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TMM007	FABRICATION OF FLEX SENSOR OPERATED ROBOTIC ARM
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TMM008	FABRICATION OF HAPTIC ROBOTIC ARM (WIRELESS)
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TMM009	FABRICATION OF INTELLIGENT COMBAT ROBOT
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TMM010	FABRICATION OF LOWER LIMB POWERED EXOSKELETON FOR PARAPLEGIC PEOPLE ASSISTING IN THEIR WALKING AUGMENTATION USING FLEX SENSOR AND ACCELEROMETER
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TMM011	FABRICATION OF MOTORIZED WHEEL CHAIR
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TMM012	FABRICATION OF WSN BASED ADVANCED IRRIGATION VEHICLE – AGRIBOT
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TMM013	FABRICATION OF ADVANCED 5 IN 1 MULTI PURPOSE AGRICULTURAL ROBOTIC VEHICLE – AGRIBOT
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TMM014	FABRICATION OF RESCUER DEVICE FOR LIFTING INFANTS STRUCK IN PITS
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TMM015	FABRICATION OF UNMANNED RAILWAY GATE CONTROLLER
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TMM016	FABRICATION OF HAPTIC ROBOTIC ARM (WIRELESS) AND CAMERA
TMM017	FABRICATION AND DEVELOPMENT OF DATA ACQUISITION ROBOT FOR TOXIC ENVIROMENTAL MONITORING USING WSN – KROTO FINDER
TMM018	FABRICATION OF PICK AND PLACE USING MOVING VEHICLE THROUGH REMOTE
TMM019	FABRICATION OF SMART WINDOWS
TMM020	FABRICATION OF DESIGN AND DEVELOPMENT OF PC CONTROLLED SMALL UNIT UNMANNED VEHICLE FOR TODAY'S ARMY
TMM021	FABRICATION OF VOICE ENABLED WHEEL CHAIR
TMM022	FABRICATION OF WALL PAINTING ROBOT
TMM023	FABRICATION OF WASTE SAPERATIONUSING SMART DUSTBIN
TMM024	FABRICATION AND DEVELOPMENT OF WHEELCHAIR CUM STRETCHER
TMM025	FABRICATION OF REMOTE OPERATED BOARD CLEANING MECHANICAL
TMM026	FABRICATION OF REMOTE CONTROLLED PATIENTS BED SEAT ADJUSTMENTS
TMM027	FABRICATION OF PENDULUM BASED WATER PUMP
TMM028	FABRICATION OF DRY AND WET WASTE SEGGREGATOR
TMM029	DEVELOPMENT OF AUTOMATIC FIRE FIGHTING ROBOT
TMM030	DEVELOPMENT OF FLOOR CLEANING ROBOT
TMM031	DEVELOPMENT OF VOICE OPERATED MOTORISED EXO SKELETON
TMM032	DEVELOPMENT OF PNEUMATIC EXOSKELETON USING TILT SENSOR
TMM033	FABRICATION OF MOTORISED SXOSKELETON USING MUSCLE SENSOR
TMM034	DEVELOPMENT OF AIR MUSCLE EXO SKELETON
TMM035	DEVELOPMENT OF AUTO GUIDED VEHICLE FOR LIBRARY PURPOSES
TMM036	DEVELOPMENT OF AUTO GUIDED VEHICLE FOR INDUSTRIAL PURPOSE

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	2019 BICYCLE /PEDAL OPERATED BASED PROJECTS
TMBP001	FABRICATION OF HYBRID MULTI PURPOSE PEDDLING MACHINE
TMBP002	FABRICATION OF PEDAL OPERATED REAL TIME HACKSAW MACHINE
TMBP003	FABRICATION OF PEDAL POWEDER FLOURMILL
TMBP004	FABRICATION OF HYBRID WATER PUMPING SYSTEM USING PEDDAL
TMBP005	FABRICATION OF PEDDELING WASHING MACHINE
TMBP006	FABRICATION OF BATTERY OPERATED PEDDALING BYCYCLE
TMBP007	FABRICATION OF PEDDAL OPERATED WASHING MACHINE
TMBP008	DEVELOPMENT OF PEDAL OPERATED CAN CRUSHER
TMBP009	DEVELOPMENT OF PEDAL OPERATED BOTTLE THRUSTER AND HACK SAW

	2019 PNEUMATICS AND HYDRAULICS BASED PROJECTS
TMPH001	FABRICATION OF INTELLIGENT REVERSE BRAKING SYSTEM
TMPH002	FABRICATION OF AIR BRAKE SYSTEM USING ENGINE EXHAUST GAS
TMPH003	FABRICATION OF AUTOMATED CRANE PNEUMATICS
TMPH004	FABRICATION OF PNEUMATIC OPERATED EMERGENCY OVERWING EXIT SYSTEM IN AIRCRAFTS
TMPH005	FABRICATION OF PNEUMATIC JACK FOR CAR
TMPH006	FABRICATION OF HYDRAULIC BASED MOBILE CRANE
TMPH007	FABRICATION OF PNEUMATIC CAN CRUSHER PROJECTS IDEA AND DESIGN
TMPH008	FABRICATION OF PNEUMATIC MODERN TRIPPING WITH 360 DEGREE ROTATION
TMPH009	FABRICATION OF AUTOMATIC PNEUMATIC RAMMING MACHINE
TMPH010	FABRICATION OF AUTOMATIC PUNCHING MACHINE
TMPH011	FABRICATION OF PNEUMATIC RIVETTING MACHINE
TMPH012	FABRICATION OF AUTOMATIC PNEUMATIC WISE AND JACK
TMPH013	DESIGN AND FABRICATION OF HIGH SPEED HACK SAW MACHINE
TMPH014	FABRICATION OF AUTOMATIC PNEUMATIC HAMMER

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TMPH015	FABRICATION OF PNEUMATIC WATER PUMP
TMPH016	FABRICATION OF PNEUMATIC OPERATED DRILLING MACHINE
TMPH016	DEVELOPMENT OF 3 AXIS HYDRAULIC DUMPER
TMPH016	DEVELOPMENT OF PNEUMATIC CAN CRUSHER
TMPH016	FABRICATION OF PNEUMATIC BASED EXOSKELETON USING MANUAL LEVER

	2019 SOLAR AND POWER GENERATION CONCEPTS BASED PROJECTS
TMSP001	FABRICATION OF HYBRID SOLAR AND HELICAL WIND TURBINE
TMSP002	FABRICATION OF FOOT STEP POWER GENERATION MECHANISM
TMSP003	FABRICATION OF GYM POWER GENERATOR
TMSP004	FABRICATION OF GENERATION OF ELECTRICITY THROUGH SPEED BREAKER MECHANISM USING HYDRAULICS
TMSP005	FABRICATION OF HYBRID POWER GENERATOR (SOLAR AND WIND)
TMSP006	FABRICATION OF EFFICIENT HYBRID POWERGENERATOR AND MULTI PURPOSE UTILIZATION (WITH SOLAR TRACKING SYSTEM AND PANEL CLEANING MECHANISM)
TMSP007	FABRICATION OF HYBRID POWER GENERATOR (WITH SOLAR TRACKINGSYSTEM)
TMSP008	FABRICATION OF HARNESSING WIND ENERGY USING TRAIN
TMSP009	GENERATION OF ELECTRICITY USING A TREADMILL

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TMSP010	FABRICATION OF UNIVERSAL POWER GENERATOR: MULTI SEASONAL
TMSP011	GENERATION OF ELECTRICITY THROUGH SPEED BREAKER MECHANISM USING HYDRAULICS
TMSP012	FABRICATION OF SMART DESIGN BASED HYDRO POWER GENERATOR
TMSP013	FABRICATION OF DOMESTIC WIND MILL
TMSP014	WIND POWER UTILIZATION FOR CAR ANNUNCIATOR
TMSP015	FABRICATION OF PUSH OPERATED SPRAY PUMP , MECHANICAL FABRICATION PROJECTS
TMSP016	FABRICATION OF SMARTWINDOWS
TMSP017	FABRICATION OF SOLAR BASED CUTTING GRINDING MACHINE
TMSP018	FABRICATION OF SOLAR OPERATED DRILL MACHINE
TMSP019	FABRICATION OF SOLAR OPERATED GRASSCUTTER
TMSP020	FABRICATION OF SOLAR OPERATED GRINDING MACHINE
TMSP021	FABRICATION OF SOLAR SPRAYER
TMSP022	FABRICATION OF SOLAR TRACKING SYSTEM WITH WATER PUMP

	2019 DESIGN AND ANALYSIS BASED PROJECTS
TMDA001	DESIGN OPTIMIZATION OF COMBUSTION CHAMBER FOR TURBO ENGINE BY USING FEA
TMDA002	STATIC & MODAL ANALYSIS OF COMPOSITE BRACKET ASSEMBLY

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TMDA003	DESIGN OPTIMIZATION OF CONNECTING ROD FOR STATIC LOADING CONDITIONS
TMDA004	FATIGUE ANALYSIS AND DESIGN OPTIMIZATION OF A DIGGER ARM
TMDA005	DESIGN OPTIMIZATION OF DISK BRAKE BY USING FINITE ELEMENT ANALYSIS
TMDA006	DESIGN OPTIMIZATION OF HYPOID GEAR BY USING STRUCTURAL ANALYSIS
TMDA007	DESIGN AND BUCKLING STRENGTH EVALUATION OF A LIFTING BEAM FOR 350 TONNES THROUGH FEA.
TMDA008	MODELING AND ANALYSIS OF A MASTER CYLINDER
TMDA009	MODELING AND ANALYSIS OF IC ENGINE PISTON WITH COMPOSITE MATERIAL
TMDA010	DESIGN AND ANALYSIS OF A RAIL WHEEL ASSEMBLY OF RAIL MOUNTED STORAGE CUM RESTING FIXTURE 60T CAPACITY

	2019 COMPOSITE MATERIALS BASED PROJECTS TITLES
TMC001	MECHANICAL BEHAVIOUR OF E-GLASS JUTE NATURAL HYBRID COMPOSITE
TMC002	MECHANICAL BEHAVIOUR OF E-GLASS SUGARCANE BAGASS NATURAL HYBRID COMPOSITE
TMC003	MECHANICAL BEHAVIOUR OF E-GLASS, EPOXY REINFORCED WITH FILLER MATERIALS (rubber powder) COMPOSITE
TMC004	MECHANICAL BEHAVIOUR OF E-GLASS, EPOXY REINFORCED WITH FILLER MATERIALS (E-WASTE) COMPOSITE
TMC005	MECHANICAL BEHAVIOUR COCONUT COIR FIBER REINFORCED WITH EPOXY POLYMER
TMC006	DEVELOPMENT OF SISAL, JUTE AND E GLASS COMPOSITE MATERIAL WITH VARIED FILLER MATERIAL.
TMC007	DEVELOPMENT OF EGLASS EPOXY REINFORCED WITH RUBBER POWDER AS FILLER MATERIAL
TMC008	MECHANICAL BEHAVIOUR OF CHICKEN FEATHER COMPOSITE WITH EGLASS
	MECHANICAL BEHAVIOUR OF EGLASS JUTE EPOXY REINFORCED WITH WOLLASTONITE AS A FILLER MATERIAL.
	DEVELOPMENT OF COMPOSITE USING BIDIRECTIONAL E-GLASS AND CHOPPED E GLASS BY VARYING THE LAYERS AND DETERMINING THE MECHANICAL PROPERTIES.

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Introductory classes



Phase 2

Software Installation Tools
Introduction



Phase 3

Tools explanation
Exercise



Phase 4

Conduction of Exams and certifications

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