

**IGEEKS TECHNOLOGIES**  
**FINAL YEAR MECHANICAL ENGINEERING**  
**ACADEMIC AND LIVE PROJECTS**  
**2019-2020 BATCHES**



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# **UPDATED MECHANICAL ENGINEERING FINAL YEAR**

## **PROJECT TITLES---2019-2020 BATCH**

### **A. PURE MECHANICAL / AGRICULTURAL PROJECTS**

1. Design and fabrication of Multipurpose power tool drilling, cutting and shaping and grinding with single motor at a time. – 30,000/-
2. Mechanically operated four wheel steering system with rack and pinion mechanism—25,000/-
3. Design and manufacturing of Elliptical exercise bicycle.-25,000/-
4. Gearless power transmission with scotch yoke mechanism.-23,000/-
5. Four wheel steering system with parallel parking prototype. -23,000/-
6. Design and fabrication of mini lathe machine –21,000/-
7. Design and fabrication of 360 degree flexible drilling machine.—23,000/-
8. Automatic paper cutting machine by using Geneva mechanism.-21,000/-
9. Design of Wheel drive industrial forklift vehicle.-25,000/-
10. Multifunctional agricultural robot (seed sowing, plowing, leveller, water sprayer). 23,000/-
11. Mini land cultivator for cultivation by using chetakk engine. -32,000/-
12. Motorized Tree climbing , water sprinkling and arm cutting robotic agricultural machine.(battery operated)—23,000/-
13. Multi side shaping machining by using crank and slotted mechanism—25,000/-

14. Design and manufacturing of Manually operated treadmill walking bicycle and regenerative power generation -25,000/-
15. Manually operated dual side fertilizer spreader with bevel gear mechanism - -- 25,000/-
16. Design and fabrication of (A.C MOTOR) motorized portable multi-functional finger millet(ragi) cleaning and flooring machine. – 31,000/-
17. Design and fabrication of comfortable manually operated car parking garage plegables (portable shelter) with open close mechanism. –25,000/-
18. design and fabrication of electric lopifit treadmill walking bicycle.-35,000/-
19. Innovative multi helmet cabin for two wheelers. – 21,000/-
20. Design and Fabrication of compressed air engine vehicle (four wheeler) and regenerative air filling mechanism. –35,000/-
21. Design and fabrication of vertical axis **maglev** (USING NEOMAGNET) wind turbine and solar power generation. -28,000/-
22. Design and fabrication of Stair climbing wheel chair with ratchet mechanism for handicaps. – 23,000/-
23. Design and fabrication for lever operated pesticides sprayer using kinetic energy by crank mechanism. -23,000/-
24. Design and fabrication of Motorized portable efficient cement mixing machine.—28,000/-
25. Design and fabrication of solar powered high speed horizontal lawn mover (grass cutter) with grass collector. – 29,000/-
26. Design and fabrication of reverse gear mechanism for two wheeler (gear vehicle). – 34,000/-

27. Design and fabrication compressed air engine running using natural air.—  
25,000/-
28. Parametric helical darrieus vertical axis wind turbine.—23,000/-
29. Design and fabrication of pedalling power electricity generation by  
classroom desk (big-rig). – 23,000/-
30. Design and fabrication of manually operated horizontal cement mixer  
drum.- 21,000/-
31. Manual operated rice planting machine. – 23,000/-
32. Motorized multiunit remover and tighter for four wheelers-24,000/-
33. Design and fabrication of agricultural A.C motorized multifunctional paddy  
and ground nut threshing machine with vibrator and collector.-30,500/-
34. Three side dumping trailer using hydraulics with motorized 360 degree  
rotation of trailer. – 25,000/-
35. Eddy current electromagnetic breaking system by coils with non-contact the  
disc. – 22,000/-
36. Button Operated Electromagnetic Gear Shifting for Two Wheeler. –18,000/-
37. Wireless Electricity Transfer using Tesla Coil . -- 11,000 /-
38. Gear less power transmission with scotch yoke mechanism.---24,000/-
39. Free energy generation from railway track. – 20,000/-
40. Innovative Road power electricity generation by using sliding mechanism.--  
-23,000/-
41. Water pumping system and power generation by using wind power (360  
degree rotation) and pedal power.—25,000/-

42. Fabrication of Automatic solid waste removal and Collector from drainage using solar power. – 24,000/-
43. Thermo electric refrigeration system using thermo electric cooler teg (peltier).—19,000/-
44. Passive method solar panel tracking with analyzing voltage.----19,000/-
45. Mechanically designed swatch bharath Eco Friendly road cleaner and collector . 22,000/-
46. Waste Collection In Railway Wagons Through Window. 21,000/-
47. Pedal operated sweeper and cleaning machine. --24,000/-
48. Swinging action power water pumping mechanism with electricity generation.---23,000/-
49. Solar water purification by using thermal method (distillation & sodis ).-----  
--25,000/-
50. Design of gravity power electricity generation by balancing load.-20,000/-
51. 90 degree steering system with high torque dc motors.--24,000/-
52. Innovative advanced Four Wheel Steering Mechanism. –21,000/-
53. Design and fabrication of Air hybrid tricycle.--25,000/-
54. Innovative Pneumatic aluminium can crusher with conveyer belt.---23,000/-
55. Design & fabrication of (KERS) kinetic energy recovery system in bicycle using flywheel.—23,000/-
56. Motorized four way hacksaw cutting machine new invention.—25,000/-
57. Innovative Pneumatic four axis pick and place robot.---25,000/-
58. Motorized auto feed screw head slot cutting machine.—22,000/-
59. Motorized multipurpose sunflower and Groundnut Shell Removing Machine--- 29,000/-
60. Chainless shaft driven bicycle.--- 21,000/-

61. Pneumatic cylinder operated aluminium and mild steel (0.5 mm) sheet metal cutting and bending machine ---24,000/-
62. Design and fabrication of Three axis pneumatic and motorized trailer.- -----  
----23,000/-
63. Design and Fabrication of solar powered auto charging D.C current tool grinding machine. -21,000/-
64. Motorized Simarouba or castor seed decorticator and oil expeller machine.— 33,000/-
65. Innovative Parabolic solar cooker with sunlight adjustable system.—  
23,000/-
66. Innovative Motorized segway vehicle.—24,000/-
67. Automatic plate washing machine with conveyer mechanism.---27,000/-

**B. MECHATRONICS / CONTROLLING / AUTOMATION**  
**MECHANICAL PROJECTS**

1. Android based agricultural robot for moisture and temperature sensor controlling and water irrigation system. -25,000/-
2. Design and fabrication of android controlled pipe climbing inspection robot.- 28,000/-
3. Intelligent four wheeler automatic breaking system by using ultrasonic sensor-25,000/-
4. Automatic agriculture pepper spray in fields to scare away the monkey and animals. -- --- 25,000/-
5. Automated smart baby cradle. -25,000/-
6. Automatic break cable damage detection And ignition and fuel locking system.---27,000/-

7. Automatic electric line wood cutting robot. --- 25,000/-
8. Industrial Process Automation by material segregation implementation. –  
-----27,000/-
9. Automatic 3 axis glass cutting robot.---- 27,000/-
10. Automatic speed breaker on time demand over speed controlling system  
for school zones.— 25,000/-
11. Sensor operated firefighting android mobile controlled automated guided  
vehicle.-----28,000/-
12. Automatic FLOOR sweeping and moping CLEANING MACHINE.-----  
-----29,000/-
13. Fabrication of sensors operated automatic ramming machine.--- 23,000/-
14. innovative four axis motorized pick and place robot.---27,000/-
15. Automated pneumatic control sheet metal cutting and bending with  
conveyor belt.--- 27,000/-