

Honours Project GME-19

Jan-June 2022-23

| Sl. No. | Project Title | Faculty Advisor | Team Member | Reg. No. |
|---------|--|--|-------------------------|----------|
| 1 | Design and Manufacturing of Two way Tapping Machine | Dr. Vivek Kumar | Krishna Kumar | 2030723 |
| | | | Aditya Ranjan | 2030722 |
| | | | Priyanshu Verma | 2030720 |
| | | | Amrit Raj Singh | 2030740 |
| 2 | Design and Fabrication of welding fixtures for pipe welding. | Dr. J.S GILL | Ritik Raj | 2030712 |
| | | | Anmol Kumar | 2030728 |
| | | | Rahul kumar | 2030767 |
| | | | Aditya Kumar Jaysawal | 1940331 |
| 3 | Two finger end-effector of robotics arm | Dr. Sunil Kumar | Jaskaran Singh | 1940339 |
| | | | Devesh Mandavi | 1940326 |
| | | | Kirty Raj | 1940313 |
| | | | Shubham Kumar | 2030711 |
| 4 | Design and Fabrication of different job profile by using CNC programming | Dr. Prabhjot Singh | Aman Kumar | 2030705 |
| | | | Abhishek Ranjan | 2030704 |
| | | | Saurav Kumar | 2030735 |
| | | | Sunil kumar yadav | 2030317 |
| 5 | Color sorting machine | Dr. R. K. Saxena and Er. Prabhjot | Nikhil kumar | 2030326 |
| | | | Rahul | 2030329 |
| | | | Rakesh Kumar | 2030330 |
| | | | Abhishek jain | 1940294 |
| 6 | Overload inhibiting system for commercial vehicles | Er. Divesh Bharti and Dr. Yogesh Verma | Abhay Prateek | 1940291 |
| | | | Ram murti Jha | 1940289 |
| | | | Piyush Ranjan | 1940308 |
| | | | Rohit kumar | 1940329 |
| 7 | Pneumatic sheet metal cutting | Er. Ankita Omer | Vipin kumar | 1940326 |
| | | | Anant kumar | 1940327 |
| | | | Shubhrat yadav | 1940330 |
| | | | Rajeev Kumar | 2030756 |
| 8 | Motorised Electric Crane | Dr. Yogesh Verma | Neeraj Kumar | 2030752 |
| | | | Rohit Kumar | 2030724 |
| | | | Ajit Kumar | 2030746 |
| | | | Keshav Jha | 2030338 |
| 9 | DESIGNING OF DIFFERENT JOB PROFILE BY USING LATHE MACHINE & TO STUDY SURFACE CHARACTERISTIC USING SEM | Er. Prabhjot Singh | Ajay Kumar | 2030339 |
| | | | Gaurav Singh | 2030311 |
| | | | Aakash Kumar Singh | 2030313 |
| | | | Abhinav Saini | 2030737 |
| 10 | Modification of surface using Laser Texturing to develop hydrophobicity over plasma sprayed VC+TiC+CuNi-Cr based novel coatings. | Dr. Anuj Bansal | Aditya Prakash | 2030772 |
| | | | Prince Kumar Mishra | 2030710 |
| 11 | Casting defects detection by visual inspection though Machine Learning and Deep Learning | Er. Jonny Singla | Suraj Kumar | 2030721 |
| | | | Prince Kumar | 2030730 |
| | | | Pratyush Deep | 2030750 |
| | | | Rupak Anand | 1940341 |
| 12 | Experimental Study through NDT Techniques on WAAM Developed INCONEL 625 Superalloy | Er Lalit Ahuja | Saikrishna Singh | 1940338 |
| | | | Ayush Rai | 1940342 |
| | | | Ambuj Tiwari | 1940333 |
| | | | UDAY KUMAR | 1940335 |
| 13 | Experimental investigation of effect of welding parameters on tensile strength and microstructure of AISI 316L stainless steel welded joints using 316L filler material by TIG welding | Dr. INDRAJ SINGH | THAZIM BORO | 1940340 |
| | | | SHIVAM KUMAR | 1940344 |
| | | | Raj Tagore | 1940284 |
| 14 | Optimization of sinhle piece flow assembly line | Dr. Sunil Kumar | Anant Kumar Gautam | 1940283 |
| | | | Soham Das | 1940295 |
| | | | Kunal Krishna Chaudhary | 2030765 |
| 15 | Design a detachable shoe sole for smart shoes | Er Ankita Omer | Krishna Azad | 2030786 |
| | | | Saket Harsh | 2030758 |
| | | | Ravi Rai | 2030733 |
| | | | Ashish kumar | 1940314 |
| 16 | Design and analysis of deformity of gears | Dr. Sunil Kumar and Er. Surinder kumar | Madhur Aggarwal | 1940307 |
| | | | Aman | 1940303 |
| | | | Rajmohit kumar | 2030708 |
| 17 | Design and fabrication of mechanical footstep power Generator | Dr. Rakesh Kumar | Amar Raj | 2030760 |
| | | | Rohit Raj Patel | 2030739 |
| | | | Aditya | 2030731 |
| | | | Aditya Kumar | 2030707 |
| 19 | Enhancing Surface Durability of EN8 Mild Steel by hard facing | Dr. Harish Kumar Arya | Pankaj Kumar | 2030714 |
| | | | Shivam Chaurasia | 2030716 |
| | | | Vipul Kumar | 2030759 |
| | | | Abhishek Yadav | 2030734 |
| 20 | Automatic drilling machine | Dr. Indraj Singh | Mukul Tyagi | 2030757 |
| | | | Hari krishna | 2030718 |
| | | | Anway pradhan | 2030762 |
| 21 | Optimization of deep drawing force using mechanical press | Dr. Amrik Singh | Aashita Saran | 1940273 |
| 23 | Investigation of mechanical properties of zirconium oxide added to aluminium 6063 | Dr. RAKESH KUMAR | Abhishek soyal | 1940278 |
| | | | Ekansh singh | 1940272 |
| | | | Mayank singh | 1940288 |
| | | | Sachin kumar | 1940306 |

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|---------|--|--------------------|-----------------------|----------|
| 24 | Automated Three Wheel Vehicle Distance and Fare Measuring System | Dr. Yogesh Verma | Atul Ranjan | 2030303 |
| | | | Md Saba Azim Noori | 2030305 |
| | | | Abdullah Ansari | 2030315 |
| | | | Pranav Rai | 2030320 |
| 25 | Study of Average Heat Transfer Coefficient of Film and Dropwise condensation at different pressure by the use of different cameras | Dr. Yogesh Verma | Harsh Vardhan Raj | 2030771 |
| | | | Divyanshu Raj | 2030779 |
| | | | Animesh Gautam | 2030742 |
| | | | Prabhanshu Kumar | 2030766 |
| 26 | MBD SIMULATION OF TWO-WHEELER | Er. Surinder Kumar | Sumit Barnawal | 2030713 |
| | | | Sachin Kumar | 2030755 |
| | | | Shivam Singh | 2030773 |
| | | | Abhinav Kumar | 2030764 |
| 27 | Joining of mild steel using a semi- automatic TIG welding process with a different groove design | Dr. J.S. Gill | Ravi Jaiswal | 1940337 |
| | | | Arpit Agarwal | 1940346 |
| | | | Nadeem Afaque | 1933040 |
| 28 | Design and fabrication of automatic braking system | Mr. Jonny Singla | Vishal bharti | 2030322 |
| | | | Rohan kumar | 2030309 |
| | | | Suman kumar | 2030307 |
| | | | Sumnesh kumar lodhi | 2030302 |
| 29 | MODIFICATION IN PRESS TOOL AND COMPARE THE PERFORMANCE WITH THE EXISTING | Dr. Indraj Singh | Md Sarfraj | 2030321 |
| | | | Sushil Kumar | 2030327 |
| | | | Sandeep Singh | 2030316 |
| | | | Md Sarfaraz Ansari | 2030325 |
| 30 | JOINING OF MILD STEEL USING CMT & MIG BY WAAM (V-groove design) | Dr. J. S. Gill | Nadeem Afaque | 1933040 |
| | | | ARPIT AGARWAL | 1940346 |
| | | | RAVI JAISWAL | 1940337 |
| | | | Deepak kumar | 2030324 |
| 31 | Fabrication of electromagnetic braking system | Dr. Sunil kumar | Guguloth Rohith | 1940281 |
| | | | Mohd. Arif | 2030323 |
| | | | Saket karn | 1840337 |
| | | | CHIRAG AGGARWAL | 2030775 |
| 32 | Comparison of the pulsed TIG and the non pulsed TIG welding on AA6061 Aluminium Alloy | Mr. S.C Verma | JASKARAN SINGH | 2030770 |
| | | | Mudawath Santhosh | 1940328 |
| | | | Abhishek Ranjan | 2030704 |
| | | | Aman Kumar | 2030705 |
| 33 | Design and Fabrication of different job profile by using CNC Milling program | Dr. Prabhjot Singh | Manish Kumar | 1940334 |
| | | | Shubham Kumar | 2030711 |
| | | | Saurav Kumar | 2030735 |
| | | | Shivam | 2030701 |
| 34 | ANALYSIS OF DEFECTS ON MILD STEEL AND STAINLESS STEEL BY USING DYE PENETRANT TESTING | Dr. Rakesh Kumar | Ankur Kumar Gupta | 2030763 |
| | | | Aditya Kumar | 2030702 |
| | | | Rahul Kumar | 2030725 |
| | | | Parateek Jain | 1940293 |
| 35 | Design and Simulation of Shell and Tube type Heat Exchanger | Dr. Rakesh Kumar | Yatharth Babbar | 1940276 |
| | | | Harshit Gupta | 1940310 |
| | | | Anil Kumar | 194312 |
| | | | Atul Ranjan | 2030303 |
| 36 | Automated Three Wheel Fare and Distance Calculation | Dr. Yogesh Verma | Md Saba Azim Noori | 2030305 |
| | | | Abdullaah Ansari | 2030315 |
| | | | Pranav Rai | 2030320 |
| | | | Ravi Jaiswal | 1940337 |
| 37 | Joining of mild steel using CMT & MIG by WAAM (V-groove design) | Dr. J.S. Gill | Arpit Agarwal | 1940346 |
| | | | Nadeem Afaque | 1933040 |
| | | | Vatsal bharti | 2030727 |
| | | | Shubham Morodia | 2030747 |
| 38 | Study of performance of fins of the different design | Dr. Yogesh Verma | Vishwajeet Anand | 2030715 |
| | | | Manoranjan anand | 2030706 |
| | | | Vishaldeep Singh | 2030748 |
| | | | Akash Kumar | 1940324 |
| 39 | A project testing the consistency and quality of welds created using MIG, Pulse MIG and CMT techniques and their suitability for manufacturing processes | Dr. Harish Arya | Shivam Kumar | 1940323 |
| | | | Poonam Vaishnav | 1940380 |
| | | | Khizar Ali Ahmed | 2030306 |
| | | | Md Shahnawaz Ahmad | 2030336 |
| 41 | Design and Development of four way hacksaw machine | Dr. Shankar Singh | Abhijeet Kumar | 2030328 |
| | | | Rishab Deori | 2030331 |
| | | | Vidit goel | 2030333 |
| 42 | Quality Circle -- A New Beginning (Mahindra and Mahindra) | Dr Ankita Omer | Abhishek Kumar Thakur | 2030761 |
| | | | Hardik Raj Verma | 2030751 |

Committee Members:

1. Dr Indraj Singh (AsP, ME)
2. Dr J S Gill (AsP, ME)
3. Dr Sunil Kumar (AP, ME)

4. Dr. Anuj Bansal (AP, ME)
5. Er. Divesh Bharti (AP ME)