

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

DEPARTMENT OF MECHANICAL ENGINEERING B.E. PROJECT LIST: 2021 – 2022

Group No.	Title of Project	Name of Student	Area of Project	Sponsored/Non-Sponsored	Internal Guide Name/Qualification/Experience
1	Cost efficient ventilator for covid-19 patients	Gholap Akshay Vishwanath Jadhav Mahesh Umeshrao DondNiket Tanaji Kadam Sarthak Bhimraj	Manufacturing	Non-Sponsored	Prof. R.U.Kadlag Qualification: M.E. (Design) Exp. Teaching: 9 Exp. Industrial: 01
2	Design of Power saving CNC hydraulic chuck on creo7.0	Manohar Narode Abhijit Mungse Rushikeshshinde Sanket Patil	Manufacturing	Non-Sponsored	Prof. P.B. Wakchaure Qualification: M.E. (Design) Exp. Teaching: 11 Exp. Industrial: 01
3	Inventory Management	Bharati Om Pandharinath Bhagwat Shivam Bhaskar Vairal Sharad	Quality	Sponsored-Rohit Engineering, Pune	Prof.S.P.Thorat Qualification: M.E. (Design) Exp. Teaching: 6
4	Design.&Development and Analysis of Inclined Belt conveyor for Coal Application.	Abhishhek Bobade Borhade Abhishhek Jagannath Madhura deshpande Saniksha datkhile	Multidisciplinary	Sponsored-MECHATOL, Pune	Prof. M.B.Shirke Qualification: M.E. (Design) Ph.D.(Pursuing) Exp. Teaching: 14
5	To improve thermal conductivity of SS316	Prasad VitthalDholi Vedant Sudhir Gangawane Prashant ManilalChaure Siddhesh Vijay Chavan	Mechatronics	Sponsored- Tata Motors, Pune	Dr.P.N.Nagare Qualification: M.E. (Design), Ph.D. Exp. Teaching: 21 Exp. Industrial: 01
6	Extraction and analysis of PGM materials from scrap Auto CATCON	Gonge Yash Jadhav Onkar Gadge Ankush Jadhav Sourabh	Multidisciplinary	Sponsored- Tata Motors, Pune	Dr. V.D.Wakchaure Qualification: M.E.(CAD/CAM), MBA, Ph.D. (Prod. Engg.) Exp. Teaching: 26 Exp. Industrial: 01

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7	Semi PGM material for LNT (Lean NOx Trap) and DPF(Diesel Particulate Filter)	Swaraj Kanawade Kadlag Vishal Jaybhaye Abhishek Indurkar Yash	Multidisciplinary	Sponsored- Tata Motors, Pune	Prof. M.S. Harne Qualification: M.E. (Design), Ph.D.(Pursuing) Exp. Teaching: 14
8	Designing Integrated Development Environment (IDE) for machine tools	Supriya Kailas Andhale Priyanka Suresh Khatal Pranav Vilas Joshi Gaurav Laxman Bairagi	CAD/CAM CAE	Non-sponsored	Prof.S. T. Gadakh Qualification: M.E. (Mech.) Exp. Teaching: 10
9	Prediction of Titanium nitride nanofluid thermal conductivity using Machine Learning.	NehaMinakshiRavsaheb Pawar PunamSudam samiksha Eknath Pagare Shete Vaishnavi Sukdeo	Machine learning and artificial intelligence	Non-sponsored	Prof. K. B. Deshmukh Qualification: M.E. (Design) Ph.D.(Pursuing) Exp. Teaching: 10 Exp. Industrial: 1.5
10	Implementation of Product Lifecycle Management (PLM)	Shinde Santwani Sudhakar BhingareMonali B. Wakchaure Arundhati V. Shinde Sakshi Prashant Vaibhav Bhandwalkar	Manufacturing	Sponsored- DI Trinity, Pune	Prof.S.K. Amrutkar Qualification: M. Tech. (Heat Power & Thermal) Exp. Teaching: 10 Exp. Industrial: 3.5
11	Welding with artificial intelligence in robotics	Aniket Ambre Vipul Jawale Ketan Bhanare Sodnar Mangesh D.	Manufacturing	Non-sponsored	Prof.Dr. V.S. Gadakh Qualification: Ph.D.(NITW), M. Tech.(CAD CAM, VNT) Exp. Teaching: 13 Exp. Industrial: 02
12	Machine learning algorithm for house price prediction	Shelke Vishal Parashram Pawar Pratik Rajendra	Machine learning	Non-sponsored	Prof.E. T. Bayas Qualification: M.E. (Design) Exp. Teaching: 12 Exp. Industrial: 02
13	Design and development of 3D scanner	Dhanale Akash Ramnath DawareSayaliBalasahb Kadam Anuli Anil MhaskeAjit Babasaheb	CAD/CAM CAE	Non-sponsored	Prof.S.D.Galande Qualification: M.E. (Design) Ph.D.(Pursuing) Exp. Teaching: 10

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14	Implementation of Product Lifecycle Management	Hajare Tushar Prita Dongare Tuskar Utram Ghugesbankar Sarjerao Dair Vinayak Vilas	Design Engineering	Sponsored-DiTrinity, Pune	Prof. V. S. Aher Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 25 Exp. Industrial: 01
15	New Technology Based Smart Helmet	Bankar Dignesh Machhindra Bagad Yashwant Anil Avhad Tejas Rajendra Patil Rushikesh Babu	Internet of Things	Non-Sponsored	Dr. V. D. Waktehaure Qualification: M. E. (Cad/Cam), MBA, Ph.D. (Prod. Engg.) Exp. Teaching: 26 Exp. Industrial: 01
16	Design of small scale and low voltage solar wind Hybrid energy generation plant	Dokhe Mayur Sunil Gosavi Chetan Pradip Bhalerao Kaveri Vinayak Gade Swati Dnyande	Mechatronics	Non-Sponsored	Prof. P. N. Gunjal Qualification: M.E. (Design) Exp. Teaching: 6
17	Experimental Investigation on effect of hardness on wear of gunmetal	Sidharth giridharjadhav Dhobeavduthbaskar Amit Parasram Khatane Kamblekunal	Design Engineering	Non-Sponsored	Prof. D. M. Nibe Qualification: M.E. (Heat Power) Exp. Teaching: 16 Exp. Industrial: 1.5
18	Implementation of Product Lifecycle Management	Sonwane Aniket Santosh Shinde Vikrant Sharad Phatangare Aniruddha S. Shirsath Akash D.	Manufacturing	Sponsored-DiTrinity, Pune	Prof. S. B. Chaudhari Qualification: M.E. (Design) Exp. Teaching: 8
19	Aqua Silencer	Gaikwad Sumedh Vijay Jangle Sahil Govind Godse Omkar Sunil Dube Saurabh Gitaram	Design Engineering	Non-Sponsored	Prof. D. S. Bajaj Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 23 Exp. Industrial: 04
20	Design & development of Conveyor and Digging system in self-Propelled Onion Harvester	Kute Akshay Balasaheb Patil Hrushikesh Nandalal	SAE TIFAN event	Sponsored-Amrutvahini COE	Prof. B. K. Varpe Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 17

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21	Experimental investigation of Mechanism of High-Speed effortless hybrid human powered vehicle.	Mrunal Lalit Shelke Ratnaja Vijay Pawar Nikita Somnath Rahatekar Rushikesh Satish Shenkar Gunjal Gaurav Balasabeb Jundare Rohan Mangesh Inamdar Sohel Hayat Kahandal Ashutosh R. Girish Mahesh Kulkarni Mahesh Nivruti Mhase Thorat Akanksha Kishor	Manufacturing	Non-sponsored	Prof. N. T. Kurhe Qualification: M.E. (Design) Exp. Teaching: 8 Exp. Industrial: 2
22	Machine learning approach to predict the tool wear in cutting operation		Multidisciplinary	Non-sponsored	Prof. P. S. Shivsharan Qualification: M.E. (Design) Exp. Teaching: 12 Exp. Industrial:
23	Retrofitting Of Single Spindle Lathe Machine		Manufacturing	Om Engineering Works. MIDC. Ahmednagar	Prof. Y. R. Gunjal Qualification: M.E. (Design) Exp. Teaching: 16 Exp. Industrial: 02
24	Improve Thermal Conductivity of Cu1000 Material by Cryogenic Treatment and Analysis Software	Shirsath Prafull Mahendra Shaikh Zakwan A. Savalekar Chinan Sarang Wadekar Suyog Laxman Akash Sanjay Dighe Ajit Ashok Mhaske Sahil Naresh Shelar Moham Raghunath Dighe Badhe Shubham Madhav Bhalerao Shubham S. Bhand Sukanya Sunil Bhokral Shubham B. Akash sanjay pawar Sagar hirala patil Rushikesh narayannehe Chetan Suresh Patil	Multidisciplinary	Sponsored- Tata Motors. Pune	Dr. P. N. Nagare Qualification: M.E. (Design), Ph.D. Exp. Teaching: 21 Exp. Industrial: 9 Prof. R. S. Gavhane Qualification: M.E. (Heat Power), Ph.D. (Pursuing) Exp. Teaching: 16 Exp. Industrial: 01
25	Design and analysis of an automated seeder for small scale sowing Application for Tray plantation method		Multidisciplinary	Non-sponsored	Prof. S. C. Fargade Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 15 Exp. Industrial: 01
26	Self-balancing gyroscopic two-wheeler		Multidisciplinary	Non-sponsored	Prof. K. D. Dagale Qualification: M. Tech. (Machine Design) Exp. Teaching: 8 Exp. Industrial: 3
27	Fire Fighting Robot		Multidisciplinary	Non-sponsored	

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28	Energy harvesting through Smart Road using piezoelectric crystal, wind turbines and solar panels.	Prathamesh Jagtap Bhagyesh Yogesh Bhambare Abhishhek Jagannath Borhade Kale Shubham/Abhishek	Manufacturing	Non-sponsored	Prof. R. E. Gite Qualification: M.E. (Design) Exp. Teaching: 8 Exp. Industrial: 2
29	Solar Operated Garbage Cleaner with combination of Shredder mechanism	Pradham Shubham P Sahane Vivek V Mahajan Vaishnavi S Patil Nikhil R Kushikesh Sadashiv Sadgir	Design Engineering	Non-sponsored	Prof. N. H. Tambe Qualification: M.E. (Heat Power) Exp. Teaching: 16 Exp. Industrial: 02 
30	Design and Manufacturing of Thermoelectric air conditioning	Pratik Rajendra Navale Salve Pravin Ravindra	Manufacturing	Non-sponsored	Prof. A. S. Shinde Qualification: M.E. (Design) Exp. Teaching: 7
31	Programming and simulation of task repeating robot arm	Wakchaure Shivkumar Rajesh Wale Shreyash Keshav	Mechatronics	Non-sponsored	Prof. K. S. Phad Qualification: M.E. (Design) Exp. Teaching: 8
32	Implementation of Product life cycle management	Mayur Balasahelbandage Abhijit Namdev Phatangare Manish Ramdas Phatangare Sarvesh Ankush Laid	Manufacturing	Sponsored- Di Trinity, Pune	Prof. G. B. Jambekar Qualification: M.E. (Design) Exp. Teaching: 11 Exp. Industrial: 05
33	Energy Generation By Using Speed Breakers	Warale Anand Dnyaneshwar Pawar Prashant Kailas Pawar Sahil Rajendra	Manufacturing	Non-sponsored	Prof. K. S. Bhagwat Qualification: M.E. (Design) Exp. Teaching: 8
34	Pneumatically operated cup making machine	Ghuge Mukta Deshmukh Aniket Dongare Suraj Gaikhe Kishor	Manufacturing	Non-sponsored	Prof. G. S. Pendhaje Qualification: M.E. (Design) Exp. Teaching: 7

35	Design And Development of Crop Health Monitoring System	Sheelar Prasad Vijay SahanePreranaBalasahel Tampure Kalpesh Raghunath NehelRutuja Kiran	Mechatronics	Non-sponsored	Dr. P.N.Nagare Qualification: M.E. (Design), Ph.D. Exp. Teaching: 21 Exp. Industrial: 01
36	Title to be decided after problem identification	Omkar Santosh Sonawane Ganesh Rambhau Mundhe Pravin Narayan Sukate Sarvesh Machindra Sawant	Mechatronics	Sponsored- Badve Engineering- Pune	Prof. K.K.Dighe Qualification: M.E. (Design) Exp. Teaching: 7
37	Implementation of Product Lifecycle Management	Asim Latif Shaikh Chaitanya Gopal Malay Nikhil Govind Wagh	Multidisciplinary	Sponsored- DiTrinity, Pune	Prof.R.R.Vilhekar Qualification: M. Tech. (Thermal) Exp. Teaching: 9
38	Design and fabrication of vehicle mounted power spraying unit	Tupe Atul Randas TemakSuyogDinkar Patil Kalpesh Nimba Shelke Deepak Balkrishna	Agriculture	Non-sponsored	Prof. O.U.Raktate Qualification: M.E. (Mfg.) Exp. Teaching: 10 Exp. Industrial: 02
39	Experimental Investigation on the Tribological behavior of Nanoparticle based Lubricant of an Automotive Engine	Erande Pradip Bhimaji Kanawade Rahul Kailas Kandalakar Rahul Tarachand Erande Pradip Bhimaji	Manufacturing	Non-sponsored	Prof. Y.J.Wagh Qualification: M.E. (Thermal), Ph.D (Pursuing) Exp. Teaching: 10
40	Design and manufacturing of task repeating robot arm	Varpe Nikhil Dilip Walunj Sandesh Madhukar Walzade Akash Manohar	Design Engineering	Non-sponsored	Prof.A.V.Deokar Qualification: M.E. (Design) Exp. Teaching: 15 Exp. Industrial: 01
41	Disease detection using machine learning	Patil ShyamDamodar Tatale Sharad Vithal Vartha Roshan Ramesh Shaikh Sohail Mustafa	CAD/CAM/CAE	Non-sponsored	Dr. V J Hase Qualification: M.Tech (CAD/CAM), Ph.D. Exp. Teaching: 20 Exp. Industrial: 02

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42	Automatic Drainage Cleaner	Tamboli Shreyas Shakthi Atik Hanif Samap Sagar Anna Sangle Dadasaheb Subhash Borse Rohit Rajesh Chaudhari Ritik Sunil Chavan Nikhil Bhagwat Chavan Shubham Anil Shyam Damodar Patil Sohail Mustafa Shaikh Sharad Vitthal Tarale Roshan Ramesh Vartha Bharmal kisan kalu Girthe Arun Rajendra Gund Vaibhav Dilip	Mechatronics	Non-sponsored	Prof. V.M. Mhaske Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 25
43	Design And Fabrication Of Crop Cutting Machine		Design Engineering	Non-sponsored	Prof. A.B. Aher Qualification: M.E. (Design) Exp. Teaching: 11 Exp. Industrial: 01
44	Implementation of Product life cycle management		Manufacturing	Sponsored- Di Trinity, Pune	Prof. B. R. Varpe Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 21
45	Electric Battery-operated sprayer pump		Manufacturing	Non-sponsored	Prof. K.P. Morankar Qualification: M.E. (Heat Power), Ph.D. (Pursuing) Exp. Teaching: 29.5 Exp. Industrial: 3

Dr. P.N. Nagare/ Prof. S.D. Galande
Project Coordinators



Dr. V.D. Wakchaure
Prof. & Head of the Department
Mechanical Engineering