







# AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Mechanical Engineering

B.E. Project List: 2023 – 2024

Project Group No.	Title of Project	Name of Student	Area of Project	Sponsored/N on-Sponsored	Name of Project Guide
1	Design and optimization of ION propulsion drone	Pawar Sakshi Babasaheb	Multidisciplinary	Non-Sponsored	Dr. P.N.Nagare Qualification: M.E. (Design), Ph.D.  Exp. Teaching: 22 Exp. Industrial: 01
		Palave Akansha Satyawan			
		Khaire Dharmesh Uttam			
		Shinde Vaibhav Rambhau			
2	Design and development of Artificial Intelligence empowered Gear Inspection	Atharva sanjay acharya	Multidisciplinary	Sponsored	Prof. K.B.Deshmukh Qualification: M.E. (Design) Ph.D. (Pursuing)  Exp. Teaching: 10 Exp. Industrial: 1.5
		Gaikwad kunal baban			
		Varad Gadkari			
		Vaishnavi Harde			
		Chaudhari Yogesh Subhash			
3	To monitor paralysis patient health with smart wheelchair using IOT	Shrawani S. Dhokchaule.	Multidisciplinary	Non-Sponsored	Prof.S.C.Fargade Qualification: M.E.  (Design), Ph.D.(Pursuing) Exp. Teaching: 19 Exp. Industrial: 01
		Vaibhav Sanjay Gaikwad			
		Arundhati Sachin Gite			
		Abhishek Bhausahab Jaybhaye			
4	Solar powered multipurpose agriculture Robot using Arduino control	Vaibhav Kailas Ghule	Design Engineering	Non-Sponsored	Prof.N.H.Tambe Qualification: M.E. (Heat Power)  Exp. Teaching: 16 Exp. Industrial: 02
		Vaibhav Uttam Gite			
		Tejas Narendra Hadawale			
		Aditya Rajendra Deshpande			
5	Design and manufacturing of small capacity Tesla turbine for energy harvesting	Utkarsh Sadanand Jadhav	Design and Manufacturing	Non-Sponsored	Prof. R.E.Gite Qualification: M.E. (Design), Ph.D. (Pursuing)  Exp. Teaching: 8 Exp. Industrial: 2
		Gaurav Ramesh Deshmukh			
		Rushikesh Santosh Gaikwad			
		Umesh Mahesh Jadhav x Y.D			
6	Design and development of fully mechanical powered 2D moving flat plate conveyor system for multi vegetable trans planter	Vadje Mayur Sharad	SAE TIFAN event	Sponsored-Amrutvahini COE	Dr. D.S.Bajaj Qualification: M.E. (Design), Ph.D.  Exp. Teaching: 23 Exp. Industrial: 04
		Tajane Om Vinayak			

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7	Design and Manufacturing of Pick and Drop and Sowing mechanism for Automotive vegetable trans planter	Tambe Ganesh Vijay	SAE TIFAN event	Sponsored- Amrutvahini COE	Prof. S. T. Gadakh <b>Qualification:</b> M. E. (Mech) / <b>Exp. Teaching:</b> 10
		Hure Om Bhaskar			
		Landge Rushikesh Dadasaheb			
		Aher Dipak Bhausaheb			
8	Steering system for self-propelled multipurpose vegetable trans planter	Kakad Gauri Maruti	Agriculture based	Non-Sponsored	Prof. K. D. Dagale <b>Qualification:</b> M. Tech (Machine Design) , Ph.D (Pursuing) <b>Exp. Teaching:</b> 8 <b>Exp. Industrial:</b> 3
		Kadlag Purushottam Kishor			
		Vikas Nitin Kokate			
9	Experimental and statistical investigation of surface roughness of steel SM45 during turning using Taguchi method	Prasad Parashram Shirole	Multidisciplinary	Non-Sponsored	Dr. B. R. Varpe <b>Qualification:</b> M.E. (Design), Ph.D. <b>Exp. Teaching:</b> 21
		Atharv Ajay Kulkarni			
		Pratik Bablu Palve			
		Shubham Suresh Khatal			
10	Design the depth control of multi vegetable trans planter using hydraulic system	Loharkar Abhishek Sunil	SAE TIFAN event	Sponsored- Amrutvahini COE	Prof. A. S. Shinde <b>Qualification:</b> M.E. (Design) , Ph.D. (Pursuing) <b>Exp. Teaching:</b> 7
		Varpe Swpanil Babasaheb			
		Kshirsagar shradha rohidas			
11	All-terrain vehicle transmission system design	Hase Suraj Dnyandev	Baja Event	Sponsored- Amrutvahini COE	Prof. P. B. Wakchaure <b>Qualification:</b> M.E. (Design) <b>Exp. Teaching:</b> 11 <b>Exp. Industrial:</b> 01
		Hase Tejashri Annasaheb			
		Hase Vaishnavi Bhausaheb			
12	Self-rechargeable Electric cycle for rural cargo mobility	Akshay Ganesh Kalambe	Multidisciplinary	Non-Sponsored	Dr. R. S. Gavhane <b>Qualification:</b> M.E. (Heat Power), Ph.D.(Pursuing) <b>Exp. Teaching:</b> 16 <b>Exp. Industrial:</b> 01
		Harshad Ratan Jagtap			
		Vaibhav Rohidas Jagtap			
13	Self-rechargeable Electric cycle for rural cargo mobility	Hase Om Santosh	Design and Manufacturing	Non-Sponsored	Prof. S. D. Galande <b>Qualification:</b> M.E. (Design) Ph.D.(Pursuing) <b>Exp. Teaching:</b> 10
		Ghegadmal Chaitanya Kishor			
		Ambre Vishal Dipak			
		Bibave Rohit Dilip			
14	Chassis for self-automated vegetable trans planter	Nagare Shubham Uttam	SAE TIFAN event	Sponsored- Amrutvahini COE	Dr. V. D. Wakchaure <b>Qualification:</b> M. E. (Cad/Cam), MBA, Ph.D. (Prod. Engg.) <b>Exp. Teaching:</b> 24 <b>Exp. Industrial:</b> 01
		Bidave Shreyash Jagannath			
		Zinjurde Pratibha Bhausaheb			

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15	To reduce conversion cost by study & analysis of high cost items & to study cost loss & prepare action plan	Bhushan Matkar	Design Engineering	Sponsored- Suprabha Irrigation	Prof. K.K.Dighe Qualification: M.E. (Design) Exp. Teaching: 7
		Harsh Kshatriya			
16	Tribo-logical performance evaluation of Natural Blended Oil	Hase Pallavi Maruti	Thermal	Non-Sponsored	Dr. V.S.Aher Qualification: M.E. (Design), Ph.D. Exp. Teaching: 26 Exp. Industrial: 01
		Gunjal Kalyani Somnath			
		Deshmukh Ankita Anil			
17	Design and development of a floating oil skimmer	Ugale Kartik Ambadas	Multidisciplinary	Non-Sponsored	Dr. M.S.Harne Qualification: M.E. (Design), Ph.D. Exp. Teaching: 15
		Shinde Suraj Devidas			
		Tanpure Aniket Babasaheb			
		Tajane Mayur Vishwanath			
18	Design and Development of automatic holding & packaging stations for roller conveyor.	Shantanu Somnath Shinde	SAE TIFAN event	Sponsored- Amrutvahini COE	Prof.K.S.Bhagwat Qualification: M.E. (Design) , Ph.D. (Pursuing) Exp. Teaching: 8
		Sadgir Karan Nandu			
		Gaurav Dattatray Pabale			
19	Analysis of slicing software for FDM additive manufacturing	Gunjal Satyajit Sakhahari	Multidisciplinary	Non-Sponsored	Prof.E.T.Bayas Qualification: M.E. (Design) , Ph.D. (Pursuing) Exp. Teaching: 12 Exp. Industrial: 02
		Avhad Vivek Manik			
		Ghumare Sanket Rajendra			
		Aditya Balasaheb Hase			
20	Design and fabrication of catalytic reformer for methanol steam reforming	Gorde Aditya Raosaheb	Multidisciplinary	Non-Sponsored	Prof.A.B.Aher Qualification: M.E. (Design) , Ph.D. (Pursuing) Exp. Teaching: 11 Exp. Industrial: 01
		Pravin Shivaji Ekhande			
		Prasad Jagannath Ingale			
		Tejas Rohidas Borkar			
21	Design and development for locking steel sheet	Gunjal Vishal Ashok	Design and Manufacturing	SysCAD Techno Solution Pune	Prof.S.B.Chaudhari Qualification: M.E. (Design) , Ph.D. (Pursuing) Exp. Teaching: 8
		Dighe Suyog Raosaheb			
		Bihani Abhishek Vijaykumar			
		Shubham Mahendra Jatar			
22	Fabrication of Abrasive jet machine and optimization of different process parameter	Nagre Rushikesh Dilip	Design and Manufacturing	Non-Sponsored	Prof. O.U.Raktate Qualification: M.E. (Mfg.) , Ph.D. (Pursuing) Exp. Teaching: 10 Exp. Industrial: 02
		Raut Pramod Kadu			
		Tupe Sagar Navnath			
		Salve Pravin Pandharinath			


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23	Design and development of Transmission system for Automated vegetable trans planter	Sonawane Amit Sandip	SAE TIFAN event	Sponsored- Amrutvahini COE	Prof. Y.J.Wagh <i>YJWagh</i> <b>Qualification:</b> M.E. (Thermal), Ph.D.(Pursuing) <b>Exp. Teaching:</b> 10
		Pabale Rajendra Rambhau			
		Pawar Tejal Dilip			
		Katore Mayur Rohidas			
24	Design and development of transmission system for range extended electric vehicle (REEV)	Gaikwad Swagat Ashok	Manufacturing	Non- Sponsored	Prof. Y.R.Gunjaj <b>Qualification:</b> M.E. (Design), Ph.D. (Pursuing) <b>Exp. Teaching:</b> 14 <b>Exp. Industrial:</b> 02
		Nikhil Anil Jejurkar			
		Amale Sudarshan Shivaji			
		Sudarshan Deshmukh			
25	Designing of tubular chassis for hybrid electric vehicle.	Devmunde Mauli Sanjay	Baja Event	Sponsored- Amrutvahini COE	Prof. V.M.Mhaske <b>Qualification:</b> M.E. (Design), Ph.D.(Pursuing) <b>Exp. Teaching:</b> 25
		Mehetre Omkar Somnath			
		Gadge Bipin Sufil			
		Sanap Prasen Nivrutti			
26	In process quality improvement by reducing ppm using 6W2H method	Viraj Khebade	Multidisciplinary	Non-Sponsored	Prof.B.G.Shinde <b>Qualification:</b> M.E. (Cad/Cam), Ph.D. (Pursuing) <b>Exp. Teaching:</b> 6.5 <b>Exp. Industrial:</b> 11
		Sangharsh Khatal			
27	Design, Analysis and development of Metal shredder machine	Vaibhav Chimaji Gunjal	Manufacturing	Sponsored- MECHATOL ,Pune	Dr. M.B.Shirke <b>Qualification:</b> M.E. (Design) Ph.D. (Pursuing) <b>Exp. Teaching:</b> 15
		Gaurav Tukaram Gawale			
		Kundan Kiran Chaudhari			
		Tanmay Ramdas Burke			
28	Design & fabrication of adaptive headlight system with fog detection.	Gajare Prakash Navnath	Baja Event	Sponsored- Amrutvahini COE	Prof.P.N.Gunjaj <b>Qualification:</b> M.E. (Design) , Ph.D. (Pursuing) <b>Exp. Teaching:</b> 6
		Ghare Sanket Sanjay			
		Kale Sagar Rambhau			
		Shidore Nilesh Dattatray			
29	Fault detection of Gear box using various AIML algorithm	Shinde Ashutosh Anil	Multidisciplinary	Non-Sponsored	Prof.A.V.Deokar <b>Qualification:</b> M.E. (Design) <b>Exp. Teaching:</b> 16 <b>Exp. Industrial:</b> 01
		Mindhe Swati Tanhaji			
		Shelke Sarika Navnath			
		Nehe Rohit Dattu			

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30	Design and Manufacturing of Chassis for ATV	Pawale Shantanu Rajiv	Baja Event	Sponsored- Amrutvahini COE	Prof. B.K. Varpe Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 17
		Deshmukh Shiraj Gorakshnath			
		Misal Gorakshnath Ashok			
31	Bearing Fault diagnosis using ANN and CNN	Ramkar Nishant Kailas	SAE TIFAN event	Sponsored- Amrutvahini COE	Prof. G.S.Pendbhaje Qualification: M.E. (Design), Ph.D. (Pursuing) Exp. Teaching: 7
		Gunde Abhishek Shashikant			
		Rajratan Vilas waghmare			
32	To reduce in process cost by minimizing process rejection to < 1000 ppm	Sarode Yash Satish	Multidisciplinary	Non-Sponsored	Dr. V J Hase Qualification: M.Tech.(Cad/ Cam),Ph.D. Exp. Teaching: 20 Exp. Industrial: 02
		Rathod Parikshit Rasal			
		Hrushikesh Sangale			
		Shinde Omkar Arjun			
33	Thermal conductivity of Insulating powder apparatus.	Sonwane shital Navnath	Design Engineering	Non-Sponsored	Prof.D.M.Nibe Qualification: M.E. (Heat Power) Exp. Teaching: 16 Exp. Industrial: 1.5
		Jadhv vaishali subhash			
		Walunj vaishnavi vilas			
		Undare Pooja Khanderao			
34	Design and Manufacturing braking system for ATV	Kale Sanket Shivaji	Baja Event	Sponsored- Amrutvahini COE	Prof.G.B.Jambekar Qualification: M.E. (Design) Exp. Teaching: 11 Exp. Industrial: 05
		Abhishek Prabhakar Memane			
		Navale Ankita Annasaheb			
35	Design and fabrication of catalytic reformer for methanol steam reforming	Doifode Pravin Shriram	Thermal	Non-Sponsored	Prof. S.K.Amrutkar Qualification: M. Tech. (Heat Power & Thermal), Ph.D. (Pursuing) Exp. Teaching: 10 Exp. Industrial: 3.5
		Abhishek shripad Joshi			


  
**Dr. P.N. Nagare/ Prof. S.B. Galande**  
**Project Coordinators**

  
**Dr. V.D. Wakchaure**  
**Prof. & Head of Mechanical Engg. Dept.,**