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# SAI RAM ENGINEERING COLLEGE

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**Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairam.edu.in](http://www.sairam.edu.in)**



## DEPARTMENT OF MECHANICAL ENGINEERING

### Problem Solving Technique

### Summary of Project Details 2022 - 2023

Assessment Year	Year	Total No. of Projects	Details of Projects
2022 - 2023	IV	65	Industry Project: 01 In-House Project: 64

## 2022-2023 Details of Final Year Projects

Batch No	Project ID	Reg. No	Name of the student	Title of the project	Supervisor Name
A1	SECME23PJA01	41251911414 4	Sriram V	Design And Fabrication Of Electrical Power Generating Suspension System	Mr.V.Pandayaraj
		41251911411 8	Rithish D		
		41251911431 0	Praveen Kumar R		
A2	SECME23PJA02	41251911409 4	Narasimhan V	Design And Analysis Of Electronically Controlled Variable Transmission	Dr. C. Parswajinan
		41251911430 9	Navin J S		
		41251911417 2	Vijayavarman T		
A3	SECME23PJA03	41251911408 9	Mohana Priya M S	Experimental Investigation On Diesel Engine Using Biodiesel And Nano Additives	Mr.S.Ravindran
		41251911401 3	Ajay Amrith Raj R		
		41251911405 7	Harshavarthini V		
A4	SECME23PJA04	41251911403 0	Bharathi P	Design And Fabrication Of Solar Operated Onion Seed Sowing Machine	Mr.K.Vetri Velmrugan
		41251911406 1	Jaganathan J V		
		41251911411 2	Ragunathan K		

A5	SECME23PJA05	41251911408 3	Madhan Raj S P	Design And Fabrication Of Automatic Drainage Cleaner Using Solar Panel	Mr. M. Raajasekar
		41251911407 4	Khaja Mouin I		
		41251911409 6	Fronick Antony		
A6	SECME23PJA06	41251911404 0	Dinesh C	Design And Fabrication Of Pin On Disc Method For Wear Testing	Mr.P.Anabarasu
		41251911401 5	Akash M		
		41251911406 5	Janakiraman A		
A7	SECME23PJA07	41251911403 3	Kalishwaran B	Experimental Investigations On Mechanical Behaviour Of Aluminium Metal Matrix Composites With Nano Particles	Dr.N.Mani
		41251911401 9	Aravazhi R		
		41251911430 1	Abdul Vaseem R		
A8	SECME23PJA08	41251911402 1	Arjith Jothimani	Design, Fabrication And Analysis Of Dual Piston Brake Caliper For All Terrian Vehicles(Atv's)	Mr.P.Vijaya Rajan
		41251911406 3	Jai Prashanth J C		
		41251911415 6	Tharun Kumar S		
		41251911431 5	Shruthi Sanjay Kulkarni		
A9	SECME23PJA09	41251911415 9	Umamageshwari S	Design And Fabrication Of Solar Dryer	Mr. S. Siva Chandran
		41251911404 7	Gayathri M		

		41251911400 3	Abirami Nivedhitha B		
A10	SECME23PJA10	41251911416 9	Vigneshwar S	Design And Fabrication Of Paddy Weeder	Mr.D.Prabhu
		41251911416 8	Vignesh Prabu S		
		41251911403 8	Dheraj M S		
A11	SECME23PJA11	41251911408 5	Malaichamy A	Parametric Optimization Of Electrochemical Machining For Nickel Based Alloy	Drn.Vinayagamurugapandy
		41251911417 1	Vijay Aravinthan R S M		
		41251911416 5	Vetriselvan A		
A12	SECME23PJA12	41251911412 6	Sanjay Kumar S C	Design And Fabrication Of Sound Wave Fire Extinguisher	Mr.R.Rajaprasanna
		41251911415 8	Thirumoorthy V		
		41251911414 6	Subaharish V		
A13	SECME23PJA13	41251911416 1	Uthish M	Design And Development Of Multipurpose And Convertible Elbow Crutch	Mr.T.Ganesh
		41251911400 2	Abibash K		
		41251911415 4	Tharun E		
B1	SECME23PJB14	41251911410 0	Nithish Kaashyap O R	STUDY OF BEHAVIOUR OF ETCHANT ON NiTi BASED SHAPE MEMORY ALLOYS	S.K.Dinesh Kumar

B2	SECME23PJB15	41251911405 8	Harshith V	Comparative Investigation Of Single Slope And Square Pyramid Solar Still By Using Latent Heat Material	Dr. A. Rajendra Prasad
		41251911405 5	Harish R		
		41251911431 6	Venkatesh I		
B3	SECME23PJB16	41251911414 8	Sumesh V S	Design And Analysis Of Temperature Swing Adsorption System In Automobiles	Dr.K.Venkatraman
		41251911400 7	Dhanasekar A		
		41251911416 7	Vignesh L		
B4	SECME23PJB17	41251911411 5	Rajkumar R	Thermal Analysis And Validation Of Li-Ion Battery Using Computational Fluid Dynamics	Mr. A. Manivannan
		41251911416 3	Varun Chander B K		
		41251911431 3	Sathyamoorthy M		
B5	SECME23PJB18	41251911410 5	Prabakaran G	Design And Fabrication Of Cvt Casing	R.Senthil Kumar
		41251911409 5	B.Naveen Kumar		
		41251911412 0	Roshan.V		
B6	SECME23PJB19	41251911400 1	Abdul Rahuman F	Design And Fabrication Of Autonomoussolar Panel Cleaning Robot	S.Ravindran
		41251911401 8	Anbarasan V		
		41251911408 2	Madhan M		

B7	SECME23PJB20	41251911403 6	Desikan V	Design And Anaysis Of Catalytic Converter Integrated With Electro-Static Precipetator	Mr.Vijayarajan
		41251911414 0	Sridhar S		
		41251911409 6	Naveen Raj V		
B8	SECME23PJB21	41251911404 3	Elvin Andrew .A	Comparative Investigation Of Hybrid Double Slope And Triangular Pyramid Solar Stills Using Latent Heat Storage Material	Mr.Sudhakar
		41251911414 9	Sundar V		
		41251911416 0	Umar Farooq I		
B9	SECME23PJB22	41251911404 3	Siva Dharshan C V	Design &Fabrication Of Oil Skimmer With Metal Chip Collector	Mr.M..Raajasekar
		41251911414 9	Esanth R		
		41251911416 0	Karuppaiah.M		
B10	SECME23PJB23	41251911412 1	Rudhra C	Optimisation Of Single Piston Floating Caliper Design For Commercial Two Wheelers	Rajaprasanna
		41251911406 2	Jagannathan		
		41251911430 5	Logesh S		
B11	SECME23PJB24	41251911401 1	Afsar Mohammed	Design & Fabrication Of Multi Operation Vehicle For Agriculture Application	Dr.S.Ramachandran
		41251911417 7	Yuvaraj D		
		41251911401 6	Akilan T		

B12	SECME23PJB25	41251911401 2	Ajay Adhavan	Fabrication Of Turbocharger For Two Wheelers	Dr.R.Ashok Gandhi
		41251911404 2	Elanchezhian S		
		41251911405 4	Hari Prasath		
B13	SECME23PJB26	41251911430 6	Manoj Kumar A	Modeling And Simulation Of Adaptive Cruise Control And Develop Control Logic For Curve Vehicle Detection	A.Ravinthiran
		41251911411 0	Ragavendran		
		41251911403 2	Bhavan C		
B14	SECME23PJB27	41251911413 7	Sreevatsan	Reverse Engineering And Optimization Of Opendifferenetial For Electrically Powered Atv	M.C.Anand Charavarythy
		41251911412 9	Sathiya Narayanan B		
		41251911413 2	Shriram Naibal		
C1	SECME23PJC28	41251911400 9	Adithya U	Automatic Mirror Adjustment In Two Wheelers	Mr.T.Babu
		41251911402 4	Athesh H.M		
		41251911411 9	Rohith A		
C2	SECME23PJC29	41251911431 4	Sharan Michael J	Automatic Waste Separation Based On Moisture Content	Dr. S. RAJESH
		41241911417 6	Yogeshwaran S		
		41251911430 3	Harish Kumar K		

C3	SECME23PJC30	41251911413 6	Sivasankar K	Optimization Of Gear Box With Integrated Open Differential	Dr. C. PARSWAJINAN
		41251911412 4	Sanjay R		
		41251911430 8	Prem Kumar		
C4	SECME23PJC31	41251911410 1	Parakh Chandra Mridul	Design And Fabrication Of Tesla Turbine-Aided Turbocharger	Dr. C. PARSWAJINAN
		41519114098	Nithish Kumar S		
		41251911405 2	Haresh M		
C5	SECME23PJC32	41251911400 8	Adithiyan S	Development Of Robotic Arm Using Brain- Computer Interface (Bci)	Dr. N. VASUDEVAN
		41251911402 8	N. Balaji		
		41251911411 4	Rajesh R		
C6	SECME23PJC33	41251911407 6	Kishore K	Automatic Toilet Cleaner	Mr. S. Ramanathan
		41251911407 7	Kishore S		
		41251911417 3	Vineeth Jayan B		
C7	SECME23PJC34	41251911401 7	V S Ameer Hussain	Oxy Emitting Air Conditioner Using Micro Algae	Dr. L. SARAVANA KUMAR
		41251911405 0	V Gokul		
		41251911410 3	J Parthasarathi		



C8	SECME23PJC35	41251911402 5	Balabadra Abhizgn	Pneumatic Powered Drone Catcher Gun	Mr. K. Vetrivel Murugan
		41251911308 4	Maheshwaran C V		
		41241911430 4	Jagadeesh C		
C9	SECME23PJC36	41251911404 9	Gokul S	Emergency Heat Reduction Feature For Fire Fighter Suit	Mr. T. Babu
		41251911410 4	Pathini Nimesh		
		41251911406 4	Jaisankar Harikrishna		
C10	SECME23PJC37	41251911408 0	Lohiteshwar V	Smart Battery Inverter With Water Level Indicator	Mr. V. Ranjith Kumar
		41251911415 5	Tharun S		
		41251911410 8	Praveen Raj R		
C11	SECME23PJC38	41251911407 8	Lingeson P	Design Of Mobile Controlled Floor Mopping Robot Using Arduino And Ultrasnic Sensor	Mr. V. Ranjith Kumar
		41251911401 0	Adithya V		
		41251911406 9	John Aston J		
C12	SECME23PJC39	41251911400 4	Abhishek R	Self Positioning Solar Panel	Mr. E. Vetre Selvan
		41251911400 5	Abithap E		
		41251911414 1	Srihariharan R		

C13	SECME23PJC40	41251911405 9	Hemanth A	Development And Performance Analysis Of Multi-Wheel Steering System	Dr.N.Mani
		41251911408 1	Lokesh Kumar B		
		41251911403 4	Danish Riyardan Raj		
D1	SECME23PJD4 1	41251911401 4	Akash K	Design And Development Of Carbon Contactor	Mr. Dinesh Kumar
		41251911415 0	Surender S		
		41251911415 3	Tamizhselvan G		
D2	SECME23PJD4 2	41251911402 0	Aravind Balaji G	Fabrication Of Stroke Therapy Chair	Mr. L. Ravi Kumar
		41251911407 9	Lireshvikram S		
		41251911402 6	Balachandar K		
D3	SECME23PJD4 3	41251911410 2	Paramesh R J	Modification Of A Two Wheeler For Thearm-Wise Challenged	Mr. V. Ravi Raj
		41251911415 2	Surya Prakash B		
		41251911410 6	Prabanjan G S		
D4	SECME23PJD4 4	41251911403 1	Bharath Srinivas S	Reverse- Engineering On A Brake Caliper For An Atv (All-Terrain Vehicle)	Dr. B. Vijaya Ramnath
		41251911402 9	Balaji Sriram K		
		41251911410 7	Prathiesh Lalan R A		

D5	SECME23PJD4 5	41251911411 3	Rahul A	Reverse Gear Mechanism In Two-Wheeler For Physically Challenged People	Mr. S. Siva Chandran
		41251911402 7	Balaji G		
		41251911406 6	Jayaram R		
D6	SECME23PJD4 6	41251911408 6	Manikandan R	Automatic Grass Cutter And Fertilizer Sprinkler	Dr. R. Ashok Gandhi
		41251911431 2	Santhosh P		
		41251911413 9	Sridhar S		
D7	SECME23PJD4 7	41251911407 5	Kirush Ratchagan R	Experimental Investigation Of Wear Behaviour Of Ti-Mg Metal Matrix Composite	Dr. M. Arul Prakash
		41251911409 1	Monish G V		
		41251911406 8	Jeeva S		
D8	SECME23PJD4 8	41251911404 5	Faheem H	Numerical Analysis Of Crashworthiness Of A Frontal Vehicle	Mr. V. Pandyaraj
		41251911408 7	Manimaran T		
		41251911402 3	Ashwin S		
D9	SECME23PJD4 9	41251911430 2	Aswin Kumar U	Anti Riot Shield With Pepper Spray And Blinding	Mr. V. Ravi Raj
		41251911431 1	Sairam G B		
		41251911405 1	Gowtham S		

D10	SECME23PJD5 0	41251911412 2	Sakthivel S	Springless Car Suspension Using Bevel Gears	Mr. T. Ganesh
		41251911412 7	Sarath Kumar S		
		41251911413 4	Siranjeevi K		
D11	SECME23PJD5 1	41251911410 9	Premnath A	Comparitive Investigation Of Pentagon And Tubular Solar Stills Using Latent Heat Storage Material	Mr. R. Bhoopathi
		41251911415 1	Surendhar T		
		41251911416 4	Vasanth V		
D12	SECME23PJD5 2	41251911416 2	Varunanand V	Mechanical Properties Of Composite Al With Fly Ash And Activated Carbon Are Fabricated Through Stir Casting Method	Dr. A.Manivannan
		41251911411 1	Raghunandhanan R		
		41251911413 8	Sridhar R		
D13	SECME23PJD5 3	41251911414 2	Sriram K	Finnozzle	Dr. A. Rajendra Prasad
		41251911412 8	Saravanakumar R		
E1	SECME23PJE54	41251911407 3	Keerthi Balaji M H	Design And Fabrication of Floating Brake Caliper	Mr. S.Krishnaraj
		41251911414 3	Sriram S		
		41251911404 8	Girish Kumar M B		

E2	SECME23PJE55	41251911409 0	Mohit Avinash V R	Optimization Of Trochoidal Rotary Pump	Mr. R.Senthil Kumar
		41251911411 7	Ravishankar S		
		41251911406 7	Jayasuriya B		
E3	SECME23PJE56	41251911407 1	Karan S	Computational Modeling of Shape Memory Alloys In Structural Engineering	Mr. S.Krishnaraj
		41251911413 3	Shyam S B		
		41251911413 1	Shoaib D R		
E4	SECME23PJE57	41251911405 6	Harish Sriram S	Evaluation Of Mechanical Properties Of Aluminium Series 7071 Metal Matrix Composites	Mr. Vinayaga Muruga Pandey
		41251911405 3	Hariharasudan P		
		41251911415 7	Thathiyu Ibson J		
E5	SECME23PJE58	41251911414 5	Sri Ram P	Heat Tubes For Cooling Thermal Systems	M.C.Anand Chakravarthy
		41251911409 7	Nithish V		
		41251911403 7	Dhanush Kumar A		
E6	SECME23PJE59	41251911406 0	Jagadeesh J	Design And Development Of Automatic Pnuematic Forging Machine	Mr. P. Anbarasu
		41251911412 5	Sanjaykumar M		
		41251911403 5	Deepak D		

E7	SECME23PJE60	41251911417 0	Vigneshwar S R M	Dynamic Analysis Of Electric Gokart	Mr. S.Ganapathy
		41251911412 3	Sanjay B		
		41251911411 6	Ramprakash D		
E8	SECME23PJE61	41251911407 0	Kannan Di	Design And Fabrication Of Toe Change Steering System For Go-Karts	Mr.M.Sudhakar
		41251911430 7	Nachi Keth R		
		41251911400 6	Adarsh Bhardwaj B		
E9	SECME23PJE62	41251911403 9	Dhinesh B	Design And Fabrication Of Electro Chemical Machine	Dr. K. Venkataraman
		41251911417 4	Vinoth Kumar S		
		41251911413 0	Selva Kumar D		
E10	SECME23PJE63	41251911408 8	Melwyn Thalopathy S	Design And Fabrication Of Noise Developer Unit For E-Vehicle	Dr. B. Vijaya Ramnath
		41251911404 1	Dinesh Kumar S		
		41251911409 2	M Siva Kumar		
E11	SECME23PJE64	41251911414 7	Suhail Ahamed K	Design And Fabrication Of Motor Assisted Screw Jack For A Four Wheeler	Mr.S.Ganapathy
		41251911450 1	Aswin M		
		41251911431 7	Visvanathan P		

E12	SECME23PJE65	41251911417 5	Yogesh E	Design And Fabrication Of Drainage Cleaning System	Mr.S.Ramanathan
		41251911409 9	Nithish Kumar S		
		41251911409 3	Muthu Praveen C		



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## DEPARTMENT OF MECHANICAL ENGINEERING

### Summary of Experimental Learning 2022 - 2023

Assessment Year	Year	No. of Industrial Visit	No. of Experimental Learning Events	No. of Lab Courses Studied
2022 - 2023	II	01	2	3
	III	02	2	4
	IV	01	2	2





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### Industrial Visit Details 2022-2023

S.No	Date	Name of the Organisation	Class	No of Students Visted	Accompanying Faculty
1	17.11.2023	<b>MM Forgings Limited - Plant 4,</b> Padappai, Chennai, Tamilnadu.	IV – A, B & C	40	Dr. R. Ashok Gandhi, Assoc Prof. Mr. S. Ravindran, Asst Prof.
2	18.11.2023	<b>MM Forgings Limited - Plant 4,</b> Padappai, Chennai, Tamilnadu.	IV – D & E	40	Dr. M. Arul Prakash, Assoc Prof. Mr. S. Krishnaraj, Asst Prof.
3	04.03.2023	<b>SCHWING Stetter - "Technovation-2023"</b> XCMG, Global Manufacturing Hub, Cheyyar, Kanchipuram	III – A, B & C	182	Dr.K.Venkataraman. Assoc Prof. Dr. S.Rajesh, Assoc Prof. Mr.K.Vetri Velmurugan, Asst Prof. Mr. T. Babu, Asst Prof. Dr.N.Vinayaga Muruga Pandy, Asst Prof.
4	15.05.2023	<b>NLC India Limited</b> Block - 1, Neyveli - 607 801, Cuddalore District, Tamil Nadu.	III – A & B	122	Dr.N.Vinayaga Muruga Pandy, Asst Prof. Dr. N. Vasudevan, Assoc Prof. Dr. L. Saravana Kumar, Assoc Prof. Mr. L. Ravikumar, Asst Prof. Mr. T. Babu, Asst Prof. Mr. P. Vijaya Rajan, Asst Prof. Mr. D. Prabu, Asst Prof. Mr. S. Ramanathan, Asst Prof.



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5	17.05.2023	<b>NLC India Limited</b> Block - 1, Neyveli - 607 801, Cuddalore District, Tamil Nadu.	III - C	60	Dr. S.Rajesh, Assoc Prof. Mr.K.Vetri Velmurugan, Asst Prof. Mr.V.Pandayaraj, Asst Prof.
6		<b>INTEGRAL COACH FACTORY (ICF)</b> Lakshmipuram, Perambhur, Chennai, Tamil Nadu 600038	II - A		Mr.P.Anbarasu, Asst Prof. Mr.S.Sivachandran, Asst Prof.
7		<b>INTEGRAL COACH FACTORY (ICF)</b> Lakshmipuram, Perambhur, Chennai, Tamil Nadu 600038	II - B		Mr.S.Ganapathy, Asst Prof. Dr.A.Manivannan, Asst Prof.

**Sample Prof:**

[https://drive.google.com/file/d/1-aG1TkKcWIOKR3\\_zyA3FVhjrFF\\_wVJZ1/view?usp=sharing](https://drive.google.com/file/d/1-aG1TkKcWIOKR3_zyA3FVhjrFF_wVJZ1/view?usp=sharing)



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## DEPARTMENT OF MECHANICAL ENGINEERING

### Internship Training Details 2022-2023

S.No	Student ID	Registration Number	Name of the Student	Class	Organization	Date	No. of Days
1	SEC20ME130	412520114037	Harivathan R	MECH / IV - Year / B	Renault Nissan automotive India Private Limited	06/02/2023 - 20/04/2023	74



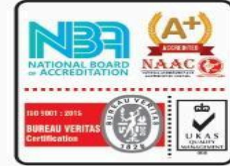
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### In-Plant Training Details 2022-2023

S.No	Student ID	Registration Number	Name of the Student	Class	Organization	Date	No. of Days
1	SEC20ME130	412520114037	Harivathan R	MECH / IV - Year / B	Renault Nissan automotive India Private Limited	06/02/2023 - 20/04/2023	74



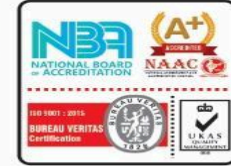
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Experimental Learning Details 2022-2023

S.No	Student ID	Registration Number	Name of the Student	Class	Organization	Date	No. of Days
1	SEC20ME130	412520114037	Harivathan R	MECH / IV - Year / B	Renault Nissan automotive India Private Limited	06/02/2023 - 20/04/2023	74