

FACULTY PROFILE

1. Name : G. Raja
2. Designation : Assistant Professor
3. Qualification : M.E.
4. Department : Mechanical Engineering
5. DOB & Age as on 28.02.2022 : 29.08.1993 & 28
6. Gender : Male
7. Address : 38/4, Punkattuvalasu,
Thuyyam Poondurai (Post),
Aval Poondurai,
Erode - 638115
Tamil Nadu, India.
8. Phone –Mobile : 9842104444
9. E_mail ID : rajagunasekaran1993@gmail.com
10. Marital Status : Married
11. Languages Known : Tamil, English
12. Particulars of Educational Qualification :



| Name of the Degree | Specialization | Year of Passing | Name of the College | Name of the University | % of Marks / Grades obtained | Class obtained |
|--------------------|--------------------------|-----------------|-----------------------------------|------------------------|------------------------------|----------------|
| M.E. | Engineering Design | 2017 | Kongu Engineering College, Erode. | Anna University | 9.27 (CGPA) | First |
| B.E. | Mechatronics Engineering | 2015 | Kongu Engineering College, Erode. | Anna University | 7.27 (CGPA) | First |

13. Additional Qualification :
- i. GATE Score (In case of B.E. / B.Tech.)
- ii. NET / SLET (In case of M.C.A. / M.Sc. / M.A.)

14. Title of Ph.D. Thesis :

15. Faculty in which Ph.D. was awarded/doing :

16. Area of Specialization: _____

17. Academic Experience as on 28.02.2022 :

| Name of the College | Designation | Joining Date | Relieving Date | Experience | | |
|---|---------------------|--------------|----------------|------------|--------|------|
| | | | | Years | Months | Days |
| Velalar College of Engineering and Technology | Assistant Professor | 09.12.2019 | Till Date | 2 | 2 | 19 |
| Paavai Engineering College(Autonomous) | Assistant Professor | 03.07.2017 | 30.04.2019 | 1 | 9 | 27 |
| Total | | | | 3 | 0 | 27 |

Add rows for additional information

18. Industrial Experience: NIL

| Name of the Organisation | Designation | Nature of Work | Joining Date | Relieving Date | Experience | | |
|--------------------------|-------------|----------------|--------------|----------------|------------|--------|------|
| | | | | | Years | Months | Days |
| | | | | | | | |
| | | | | | | | |
| Total | | | | | | | |

19. Research Experience:

20. Number of projects:

i) Completed

| Sl. No. | Title of the project | Funding Agency | Amount | Year (From-To) |
|---------|--|--|--------|----------------|
| 1. | Evaluation of tribological properties on ceibapentandra (kapok) seed oil as an alternative lubricant for machining applications. | IE(I) R&D Project ID - PG2016070 | 50000 | 2016-2017 |

ii) On-going

| Sl. No. | Title of the project | Funding Agency | Amount | Date of Commencement | Expected date of completion |
|---------|----------------------|----------------|--------|----------------------|-----------------------------|
| | | | | | |

21. Number of Ph.D. candidates successfully completed: _____

22. Number of Ph.D. candidates currently working: _____

23. Number of M.Phil. candidates successfully completed: _____

24. Number of M.Phil. candidates currently working: _____

25. Publications:

i) Books

| Sl. No. | Author/s | Title | Publisher | Year of publication | Page No. |
|---------|----------|-------|-----------|---------------------|----------|
| | | | | | |

ii) Articles in Journals

| Sl. No. | Title of Article | Journal | Year/Month |
|---------|---|--|------------|
| 1. | Hardness measurement using image analysis in matlab | International Journal of Latest Trends in Engineering and Technology (IJLTET). | 2015 |
| 2. | Simulation based Sensitivity Study of Tread Pattern and Materials on Cooling Efficiency of M1 Vehicle Tyres | International Journal of Vehicle Structures and Systems | 2016 |
| 3. | Investigations on Various Thread Designs and Materials for Dental Implants: A 3D Finite Element Study | Trends in Biomaterials & Artificial Organs | 2016 |
| 4. | Evaluation of Tribological Properties on Ceiba Pentandra (Kapok) Seed Oil as an Alternative Lubricant | Industrial Lubrication and Tribology | 2018 |

| | | | |
|-----|--|---|------|
| 5. | Experimental investigations of vibration and acoustics signals in milling process using kapok oil as cutting fluid | Mechanics & Industry | 2020 |
| 6. | Experimental studies on viscosity, thermal and tribological properties of vegetable oil (kapok oil) with boric acid as an additive | Micro & Nano Letters. | 2020 |
| 7. | Surface engineering of zinc sulphide film for augmenting the performance of polycrystalline silicon solar cells | Chalcogenide Letters | 2021 |
| 8. | Augmenting the performance of photovoltaic cell through surface coating of molybdenum disulphide | Chalcogenide Letters | 2021 |
| 9. | Surface engineering of chromium films for augmenting bird striking performance of jet engine blades | Material Testing (Accepted). | 2022 |
| 10. | Automatic LPG Gas Booking using GSM module | Springer lecture Notes. (Accepted- Article in press) | 2022 |

iii) Papers in Conference/Seminar/Proceedings

| Sl. No. | Title of the paper | Title of conference/seminar volume | Year of publication | Publisher |
|---------|--|---|---------------------|-----------|
| 1. | Analysis Of Cooling Efficiency For Modified M1 Vehicle Tyre | International Conference On “Recent Advancements in Design Automation and Intelligent Systems”, Coimbatore. | 2016 | |
| 2. | Evaluation of Frictional and Wear Characteristics of CeibaPentandra (Kapok) Seed Oil as an Alternative Lubricant | Interational Conference on “Recent Advances in Mechanical Engineering”, GCE Salem. | 2017 | |
| 3. | Integration of Offensive and | International Conference On | 2018 | |

27. Refresher / Orientation course / FDP, etc., attended

| Sl. No | Period | | Topic / Title | Organized by | Expenses met by VCET / Own / Organizer |
|--------|------------|------------|---|---|--|
| | From | To | | | |
| 1. | 17.08.2020 | 22.08.2020 | FDP on Soft Skills | Velalar College of Engineering and Technolgy | Own |
| 2. | 24.08.2020 | 28.08.2020 | Online FDP on Recent Trends in Mechanical Engineering | Institute of Engineers (INDIA) | Own |
| 3. | 26.10.2020 | 31.10.2020 | FDP on Geotechnical Engineering | Velalar college of engineering and technology | Own |
| 4. | 14.12.2020 | 19.12.2020 | Online FDP on Advances in Tribology | Sreenidhi Institute of Science and Technology, Hyderabad. | Own |
| 5. | 15.02.2021 | 27.02.2021 | Two week online faculty Development Programme on Renewable Energy intervention in industry, Commercial and domestic application | Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, AP | Own |
| 6. | 05.04.2021 | 12.04.2021 | FDP on AICTE – ISTE Approved refresher course on Design and Development of products and services | RMK Engineering College. | Own |
| 7. | 24.05.2021 | 29.05.2021 | Anna University sponsored FDP on MF 8071 Additive Manufacturing | Dr.N.G.P. Institute of Technology, Coimbatore | Own |

28. Seminars / Conferences / Symposia / STTP / SDP / Workshops organized:

| Sl. No | Date | Event | Status as organizer | Topic / Title | Name of the funding agency | Grant (Rs.) | Status (Applied/ Granted/In Progress / Completed) |
|--------|------|-------|---------------------|---------------|----------------------------|-------------|---|
| | | | | | | | |
| | | | | | | | |

29. Referee ship / Editorship of Journals, Conferences/Seminars chaired etc.:

| Sl. No. | Name of the Journals and Conferences/ seminar | Organized by | Date / Period |
|---------|---|--------------|---------------|
|---------|---|--------------|---------------|

| | | | |
|--|--|--|--|
| | | | |
| | | | |

30. Chairman/Member of Authority/Committee etc: NIL

| Sl. No. | Chairman/Member/Secretary | Committee/Authority | Year (From-To) |
|---------|---------------------------|---------------------|----------------|
| | | | |

31. Membership to professional Organization/Associations:

| Sl. No. | Name of the Association/Organizations | Life member/Ordinary member |
|---------|---------------------------------------|-----------------------------|
| 1 | Institute of Engineers (India) | Life Member |
| 2 | | |
| 3 | | |

32. Travelled Abroad for training or Studies (if 'yes' fill the following details): NIL

| Country visited | Period of Visit | | Purpose of Visit |
|-----------------|-----------------|----|------------------|
| | From | To | |
| | | | |

33. Consultancy Information's, if any:

34. Details of the Patents, if any:

35. Contribution for the Development of the Institution/ Department

| | | |
|---|--------------------|--|
| a | To The Institution | |
| b | To the Department | 1. IV Coordinator 2. OD Coordinator 3. IPT Coordinator |

36. Academic Performance:

a. Results obtained: (LIST LATEST 3 YEAR DATA ONLY – MENTION ONLY THEORY COURSES)

| Sl. No | Academic Year | Course | Sem | Class | Course | No. of Student | Pass % |
|--------|-----------------------|--------|-----|--------|-----------------------------------|----------------|--------|
| 1. | 2019-2020 Even sem | B.E. | 8 | 16ME8B | 16MEE19 - Maintenance Engineering | 35 | 100 |
| 2. | | | 2 | 19ME2A | 18MET21 - Engineering Mechanics | 31 | 100 |
| 3. | 2020-2021 | B.E. | 7 | 17ME7A | 16MET73 - Mechatronics | 60 | 100 |
| 4. | | | 1 | 20IT1B | 18MEC11 - Engineering Graphics | 63 | 95 |
| 5. | | | 2 | 20ME2A | 18MET21 - Engineering Mechanics | 47 | 100 |

| | | | | | | |
|----|--|---|----------|--------------------|----|-----|
| 6. | | 6 | 18ME6A&B | 18MEE12 - Robotics | 35 | 100 |
|----|--|---|----------|--------------------|----|-----|

b. Student's Projects guided:

| Sl. No | Academic Year | UG/PG | No. of Students | Title of the Project | Awards if any |
|--------|---------------|-------|-----------------|--|---------------|
| 1. | 2019-20 | UG | 4 | Study and Analysis of Turmeric Harvester for Mini Tractor | Nil |
| 2. | 2020-21 | UG | 4 | Performance Analysis of ZnO-Al ₂ O ₃ Multi-layer antireflection coating for solar panel. | Nil |

37. Awards/Recognitions :

38. Self Assessment of Performance:

| S.No | Strengths | Weakness |
|------|-----------------|----------|
| 1 | Positivity | Nil |
| 2 | Decision Making | |
| 3 | Time management | |