

|                                                                                                                                                                                                                                                                         |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Dr.V.Nirmal Kannan</b><br><b>Principal</b><br><b>Mohamed Sathak Engineering College, Kilakarai</b><br><i>Certified Green and Environment Auditor</i><br><b>Mobile : +91-9884883958</b> Email: <a href="mailto:v.nirmalkannan@gmail.com">v.nirmalkannan@gmail.com</a> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

### **ACHIEVEMENTS in Principal Position (10 Years)**

| S.No | Content                   | ACHIEVEMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Academic                  | <b><i>Achieved Top Results - 3<sup>rd</sup> Rank in the State</i></b> with 93.47% in Anna University Examinations<br><b><i>Made V.S.B.Engineering College as one of the TOP 10 colleges in Tamilnadu</i></b> by implementing Innovating Teaching Learning methodology                                                                                                                                                                                                                                                          |
| 2    | Admission                 | <b><i>Achieved 100% Admission:</i></b> 100% seats filled in government counselling 2019<br>Increased the intake of college from 660 to 1180 (i.e from 9 departments to 16 departments)                                                                                                                                                                                                                                                                                                                                         |
| 3    | Accreditation and Ranking | <b><i>Achieved Autonomous status</i></b> for the college for 10 years from the year 2022-23 to 2031-32<br><b><i>Achieved NBA accreditation</i></b> for all six eligible UG Programme (Civil, CSE, ECE, EEE, IT, MECH) with high Score<br><b><i>Achieved NAAC A+ grade</i></b> for VSB college of Engineering<br>Received <b><i>Permanent Affiliation</i></b> for Five Program namely CSE, ECE, EEE, IT, MECH<br>Update the quality standard by receiving <b><i>ISO 9001:2015 Certification</i></b> from TUV Rheinland Pvt. Ltd |
| 4    | Placements                | Tremendous <b><i>increase in placements</i></b> by getting <b><i>1938 offers</i></b> for our students in 2023 on <b><i>campus placement drive</i></b> from TOP MNCs like TCS, Capgemini, Accenture, CTS, WIPRO, Quest Global, Virtusa, DXC Technologies, Tessolve Semiconductor etc...                                                                                                                                                                                                                                         |
| 5    | Research and Development  | Received Research Fund worth of <b><i>One crore 20 lakhs</i></b> from various funding agencies.<br>Received <b><i>Research center recognition</i></b> for ECE, Mechanical Dept of VSB Engineering College. Received <b><i>Research center recognition</i></b> for Mechanical, Physics Dept of Mohamed Sathak Engineering College                                                                                                                                                                                               |
| 6    | Awards and Recognition    | Received <b><i>BEST PRINCIPAL Award, BEST TEACHER Award, Research Excellence Award, Key Contributor Award, Life Time Achievement Award, Jal sakthi abiyam award</i></b> from AICTE for College, Awarded <b><i>Gold Medal</i></b> in M.E, <b><i>Certified Lead Auditor</i></b> for Green, Energy and Environment Audit.                                                                                                                                                                                                         |



## **PROFESSIONAL EXPERIENCE**

**Total Teaching Experience: 22 years**

- **Principal** – Mohamed Sathak Engineering College, Kilakarai, Tamilnadu India – (26<sup>th</sup> October 2023 – Till Date)
- **Principal** – V.S.B. Engineering College, Karur, Tamilnadu India – (8<sup>th</sup> Nov 2017 – 20<sup>th</sup> October 2023)
- **Principal** – James College of Engineering and Technology, Nagercoil, Tamilnadu India – (April 2017 – October 2017)
- **Professor & Head of the Department** – Department of Mechanical Engineering, Sri Venkateshwara College of Engineering and Technology, Chennai, Tamilnadu, India – (June 2016 – march 2017)
- **Associate Professor & Head of the Department** – Department of Mechanical Engineering, Magna college of Engineering, Chennai, Tamilnadu, India – (December 2012 to may 2016)
- **Assistant Professor (Senior Grade) & Co-ordinator Part time Classes.** – Department of Mechanical Engineering, **SRM University**, Chennai, Tamilnadu, India – (October 2011 to October 2012)
- **Assistant Professor** - Department of Mechanical Engineering, Indira Institute of Engineering and Technology, Thiruvallur, Tamilnadu, India – (May 2010 to September 2011)
- **Senior Lecturer** - Department of Mechanical Engineering, Apollo Engineering College, Chennai, Tamilnadu, India – (June 2009 to April 2010)
- **Lecturer** - Department of Mechanical Engineering, VELTECH MULTITECH Engineering college, Chennai, Tamilnadu, India – (June 2003 to May 2009)

## **ACADEMIC CREDENTIALS**

### **A) PhD Information:**

Institute of study : **Annamalai University, Chidambaram.**  
Year of award : 2016  
Department : Mechanical Engineering

### **B) M.E. Information: (GOLD MEDALIST)**

Institute of study : **SVCE, Anna University, Chennai.**  
Year of award : 2007, 1st class with Distinction  
Specialization : **CAD**

### **C) B.E. Information:**

Institute of study : **Madras University, Chennai.**



Year of award : 2003, Ist class  
Specialization : **Production Engineering**

***D) MBA Information:***

Institute of study : **United Business Institutes, Brussels, Belgium**  
Year of award : 2012, Ist class  
Specialization : Operations

**RESEARCH CONTRIBUTION:**

**Grants Received from Funding Agency:**

| S.No | Title of the Project & File Number                                                                                                                                       | Funding Agency                                  | Amount Sanctioned | Status of the Project |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------|-----------------------|
| 1    | Skill and Personality Development Center for SC/ST students<br><a href="#">F.No.65-5/RIFD/SPDP/POLICY-1/2018-19</a>                                                      | AICTE – SPDC                                    | Rs. 8,66,333      | Completed             |
| 2    | STTP on Development of 3D Printing Technology in Biomedical Field for Organ Transplant<br><a href="#">F.No. 34-66/12 /FDC/STTP/Policy-1/2019-20</a>                      | AICTE – STTP                                    | Rs. 2,23,333      | Completed             |
| 3    | Modernization of Manufacturing Technology Laboratory by Retrofit and up gradation of Process Machinery<br><a href="#">F.No.9-222/IDC/MODROB/Policy-1/2019-20</a>         | AICTE-MODROB                                    | Rs.15,55,686      | Completed             |
| 4    | Rotating Gate Power Generator<br><a href="#">EME-098</a>                                                                                                                 | TNSCST – Students Project Scheme                | Rs.7,500          | Completed             |
| 5    | STTP on Deep Learning<br><a href="#">F.No.34-65/335/RIFD/STTP/Policy-1/2018-19</a>                                                                                       | AICTE – STTP                                    | Rs.3,50,000       | Completed             |
| 6    | STTP on Medical Image Processing<br><a href="#">F.No.34-65/334/RIFD/STTP/Policy-1/2018-19</a>                                                                            | AICTE – STTP                                    | Rs.3,50,000       | Completed             |
| 7    | Faculty Development Programme on Formal, Modelling, Control and Real Time Implementation of Cyber Physical Systems<br><a href="#">F.No.34-67/110/FDC/FDP/P-1/2019-20</a> | AICTE - FDP                                     | Rs. 4,34,425      | Completed             |
| 8    | STTP on Futuristic Innovations, Trends in Renewable Energy and Utilization Technologies<br><a href="#">F.No.34-66/122/FDC/STTP/POLICY-1/2019-20</a>                      | AICTE – STTP                                    | Rs. 2,82,333      | Completed             |
| 9    | Modernization of the VLSI Design Laboratory<br><a href="#">F.No.9-229/RIFD/MOD/POLICY-1/2018-19</a>                                                                      | AICTE-MODROB                                    | Rs.7,00,000       | Completed             |
| 10   | Modernization of Power Electronics and Drives Laboratory<br><a href="#">F.No.9-242/RIFD/MOD/POLICY-1/2018-19</a>                                                         | AICTE-MODROB                                    | Rs.10,00,000      | Completed             |
| 11   | Asset Mapping At Panchayat level using Bhuvan Panchayat Mobile Application                                                                                               | National Remote Sensing Centre, ISRO, Hyderabad | Rs. 9,26,000      | Completed             |



|    |                                                                                                                |        |               |           |
|----|----------------------------------------------------------------------------------------------------------------|--------|---------------|-----------|
| 12 | Establishment of Entrepreneurship Development Cell                                                             | AICTE  | Rs. 6,00,000  | Completed |
| 13 | Development of Advanced Mobile Computing Lab                                                                   | AICTE  | Rs. 7,75,000  | Completed |
| 14 | Modernization of existing facility in Strength of Materials                                                    | AICTE  | Rs. 14,10,350 | Completed |
| 15 | Development of Advanced Networking Lab                                                                         | AICTE  | Rs. 7,75,000  | Completed |
| 16 | Establishment of Training Facilities for SCST Cell in Collaborating Institutions. Sanctioned Date (20.11.2023) | TNSCST | Rs. 10,00,000 | Ongoing   |
| 17 | PMKYY Scheme (.....11.2023)                                                                                    | AICTE  | Rs.23,00,000  | Ongoing   |

**Patent Granted: 1**

| S.No | Title of the Invention                                                                  | Patent Status           | Patent Number |
|------|-----------------------------------------------------------------------------------------|-------------------------|---------------|
| 1    | An InAs Based dual quantum well double E Gate High- Electron Mobility Transistor Device | Granted date 17/11/2022 | 202022105491  |

**Copyrights Granted: 1**

| S.No | Title of the Copyrights          | Patent Status           | Patent Number |
|------|----------------------------------|-------------------------|---------------|
| 1    | Strength of Materials Lab Manual | Granted date 17/11/2022 | 202022105491  |

**Patent Publication: 6**

| S.No | Title of the Invention                                                                               | Patent Status              | Patent Number  |
|------|------------------------------------------------------------------------------------------------------|----------------------------|----------------|
| 1    | G-GLASS Smart Manufacturing Unit                                                                     | Published dated 06/12/2019 | 201941046540 A |
| 2    | G-GLASS for Electrical Power Generation and Electrical Energy Storage                                | Published dated 06/12/2019 | 201941046543 A |
| 3    | High Performance Air Purifier Using Human Hair and Vetiver (Chrysopogan Zizanioides) as Filter Media | Published dated 03/01/2020 | 201941051988 A |
| 4    | Coconut Multi Processing Machine                                                                     | 24/04/2020                 | 202041009037 A |
| 5    | Optimization of Carbon Content in Aqua Silencer by using lithium hydroxide                           | 24/04/2020                 | 202041009035 A |
| 6    | Driverless Renewable Energy Hybrid Vehicle with Bluetooth Control                                    | 24/04/2020                 | 202041009040 A |



## **Book Publication: 2**

1. Published a Book Chapter titled “Sustainable Development of Bioenergy and its Impacts on Ecosystem” Springer Nature Singapore Pte Ltd, 2023, Bioenergy, Energy, Environment and Sustainability, [https://doi.org/10.1007/978-981-99-3002-9\\_3](https://doi.org/10.1007/978-981-99-3002-9_3)
2. Published a Book titled “Mechatronics- A Perspective View from Embedded Systems” ISBN: 978-81-87721-10-9, 2019.

## **Referred Journal Papers: 35**

1. K.Ravikumar, S.Dinesh Kumar, Nirmal Kannan, G.Rathinasabapathy, A.Arunnath, “An Overview On The Microstructural, Mechanical, And Bio-Properties Of Titanium-Based Materials Subjected To Equal Channel Angular Pressing Process; Methods And Applications” Surface Review and Letters, <https://doi.org/10.1142/S0218625X25300175>
2. V Nirmal Kannan, G Prabhakar, N Ayyanar , “Surface plasmon resonance sensor with 2D materials for enhanced refractive index detection of chemical pollutants in seawater” Optik - International Journal for Light and Electron Optics 321 (2025) 172157
3. Prabhakar G, Nirmal Kannan V, Selvaperumal S, Baranitharan B, “YOLOv5-based Enhanced Underwater Seaweed Detection Using Open-Source Datasets” Recent Patents on Engineering, Bentham Science Publishers, 2024, DOI: 10.2174/0118722121303581240527070227, 1872-2121
4. M.Ramachandran, G.Prabhakar, V.Nirmal Kannan, A.Mariya Chithra Mary, “ Microgrid Energy Optimization and Realization by means of Plug-in Electric Vehicles in both V2G – G2V Environment” IEEE XPLORE, 2023, ISBN 979-8-3503-9663-8
5. S.Yuvaraj, Dr.V.Nirmal kannan, S.Venkatesh, G.Vinoth , R.Vignesh narayanan, “Productivity Improvement using Segregated Sub Assembly Conveyor System”, Suraj Punj Journal For Multidisciplinary Research, Volume 9, Issue 3, 2019:824-827
6. M.Vasanth kumar, Dr.V.Nirmal kannan, M.Vignesh, S.Vajahath rasool, V.Venkateshwaran, “Failure Mode Design of Pinion Inner Cone Bearing in Four Wheeler Crown Assembly”, Suraj Punj Journal For Multidisciplinary Research, Volume 9, Issue 3, 2019:813-818
7. Rajarajasozhan H, Dr.Nirmal kannan V, Sanjeevi K , Sivaprakash G, Surentharan B, “Design and Implementation with Motorization In IGM Positioner”, Suraj Punj Journal For Multidisciplinary Research, Volume 9, Issue 3, 2019:370-374
8. R.Balamurugan, Nirmal Kannan.V, Rajesh S, “Design and Numerical Analysis of Innovative Plowing Machine”, International Journal of Research, ISSN NO:2236-6124, Volume 7, Issue X, October/2018:1160-1165
9. R.Dhivagar, T.S Kiruba Shankar, K.Ravikumar, V Nirmal Kannan, “Design and fabrication of Stereo braking system”, International Journal of Research, ISSN NO:2236-6124, Volume 7, Issue X, October/2018:1167-1172
10. H Rajarajasozhan, V Nirmal kannan, M.Mohamed Abdul Hafeez, R.G.Hari, “Design of Innovative Waste Plastics Disposal Machine”, International Journal of Research, ISSN NO:2236-6124, Volume 7, Issue X, October/2018:1218-1223
11. K.Ramachandran, V.Nirmal Kannan, K.Jayaram, M.Guruprasath, “Automation of Manual Work Piece Replacement in CNC Machine Using Robot”, International Journal of Research, ISSN NO:2236-6124, Volume 7, Issue X, October/2018:1224-1228
12. R.Dhivagar, T.S.Kiruba Shankar, V Nirmal Kannan, K.Ravikumar, “Design and Fabrication of Windmill by using Mercury and Water”, Journal of Applied Science and Computations, ISSN NO: 1076-5131, Volume 5, Issue 10, October/2018:1445-1452



13. N. Kapildev<sup>1</sup>, V.NirmalKannan<sup>2</sup>, P.Raju, "Lean Production Enhancement Using Segregated Sub-Assembly Conveyor System", Journal of Applied Science and Computations, ISSN NO: 1076-5131, Volume 5, Issue 10, October/2018:1510-1513
14. M.Vasanth kumar, V.Nirmal kannan, V.Ragavan, M.Sangeetha, "Process Improvement on Engine Test Bed by using Drive Adaptor Plate Fixture", Journal of Applied Science and Computations, ISSN NO: 1076-5131, Volume 5, Issue 10, October/2018:1478-1482
15. M.Vasanth kumar, V.Nirmal kannan, S.Ram prasad, S.Vajahath rasool, "Design of Leak Proof Coupler Valve for Fuel Supply in Engine Test Rig", Journal of Applied Science and Computations, ISSN NO: 1076-5131, Volume 5, Issue 10, October/2018:1505-1509
16. G. Sathish Pandian,T. Susintharan, V. Siva ,R. Tamil Stalin, A. Vasanth Emil Richardson, V. Nirmal Kannan, "Multi-Layer Low Conduction Roof", i-manager's Journal on Material Science, Vol. 6 I No. 2 I July - September 2018
17. V. Nirmal Kannan, T.S.Kiruba Shankar, Sathish Pandian, Arun, Ramya, "Productivity Enhancement Using Automation Of Removing Refractory Lining By Hydraulic Mechanism" Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 01-Special Issue, 2018 **ELSEVIER Scopus Indexed**
18. V. Nirmal Kannan, R.Parthasarathy, P.Raju, A.M.Vinoth Kumar, Rajesh, "Design and Numerical Analysis of Distortion Control in Impeller Cover Plates by Using a Special Fixture" International Journal of Pure and Applied Mathematics, Volume 119 No. 12 2018, 16727-16736, ISSN: 1314-3395 (on-line version), <http://www.ijpam.eu> **Scopus Indexed**
19. V. Nirmal Kannan, Gopalakrishnan, T.S. Kiruba Shankar, "Design and Elimination of Heat Check Marking In Chip Stripper for Rim Manufacturing Process" IJERT -2018, Volume-6 Issue – 2, **Indexed by Elsevier SSRN**
20. Nirmal Kannan.V, Ramya.R, Kirubashankar.T.S, "Design And Automation Of Cylinder Head Valve Guide Groove Detection System" International Journal of Mechanical and Production Engineering, ISSN(p): 2320-2092, ISSN(e): 2321-2071, Volume- 6, Issue-3 (12-16) Mar.-2018,<http://iraj.in> **UGC Approved**
21. Dr. V. NirmalKannan, T. Gopalakrishnan, Dr. R. Parthasarathi "FEA Models and Experimental Results Of 3D Printing Process For Fabricating A Mini Robot" Indian J.Sci.Res. 17(2): 135 - 140, 2017 ISSN: 0976-2876 (Print), ISSN: 2250-0138(Online) **UGC Approved**
22. Saravanan M, Vinoth Kumar A M and Nirmal Kannan V and Stephan Thangaiah I S "Optimization of process parameters during wire electrical discharge machining of Ti Gr 2 for improving corner accuracy" Materials Today: Proceedings 4 (2017) 2105–2113, **Science Direct (ELSEVIER) Anna University Annexure I**
23. Nirmal Kannan V and Sankaranarayanan G "Mechanical And Structural Characteristics Of P(Hema) Hydrogel For Lumbar Disc Prosthesis" International Journal of Biomedical Research [ISSN No: 0970-938X] 2015;26(4):s49-51 **Anna University Annexure I**
24. P. Sevvel, V. Nirmal Kannan, S. Parameshwaran and Mohan Kumar "Proof of Concept Fabrication of Multi-axis Pneumatic Mechanism for Dumpers" *Int. J. Vehicle Structures & Systems*, 7(4), 172-174 ISSN: 0975-3060 (Print), 0975-3540 (Online) 2015 **Anna University Annexure II**
25. Nirmal Kannan V "Reliability of lean Tools",International Journal of Innovative Research in



Science,Engineering and Technology”,Volume 4, Special Issue 2, February 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753

26. Nirmal Kannan V “Applications of Artificial Intelligence in safe Human-Robot Interactions”, International Journal of Innovative Research in Science,Engineering and Technology, Volume 4, Special Issue 2, February 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
27. Nirmal Kannan V, Dineshkumar S, Sankaranarayanan G “Analysis of Requirements for an Artificial Intervertebral Disc with Selected Mechanical Properties”, International Journal of Current Engineering and Technology-*IJCET INPRESSCO,USA*[ISSN 2277-4106] April 2014 pg.no.80-84 **impact factor =2.552**
28. Dineshkumar S, NirmalKannanV, Sankaranarayanan G “Parameter Optimization of ABS-M30i Parts Produced by Fused Deposition Modeling for Minimum Surface Roughness” International Journal of Current Engineering and Technology-*IJCET INPRESSCO,USA*[ISSN 2277-4106] April 2014 pg.no.93-97 **impact factor =2.552**
29. Sevvel P, Nirmal Kannan V, Mars Mukesh S “Innovative Electro Magnetic Braking System” International Journal of Innovative Research in Science,Engineering and Technology Volume 3, Special Issue 2, April 2014[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
30. V.Nirmal Kannan , P.Sevvel , L.Mohanraj “Virtual Tests for Facilitating Steering Wheel Development” International Journal of Innovative Research in Science,Engineering and Technology Volume 4, Special Issue 10, August 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
31. P.Sevvel , V.Nirmal Kannan , A M Vinoth Kumar “High Reliability of MEMS Packaged Capacitive Pressure Sensor Employing 3C-SiC For High Temperature” International Journal of Innovative Research in Science,Engineering and Technology Volume 4, Special Issue 10, August 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
32. L.Mohanraj , A.M. Vinoth Kumar , V.Nirmal Kannan “Micro Machining for Micro Electro Mechanical Systems (MEMS)” International Journal of Innovative Research in Science,Engineering and Technology Volume 4, Special Issue 10, August 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
33. S.Karthick , V.Nirmal Kannan , A M Vinoth Kumar “The Effect of a New Teaching Methodology on Learning Performances of Automotive -Mechatronics Students” International Journal of Innovative Research in Science,Engineering and Technology Volume 4, Special Issue 10, August 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
34. V.Nirmal Kannan , P.Sevvel , S.Karthick “Fatigue Analysis of an FEA Model of a Suspension Component, And Comparison with Experimental Data” International Journal of Innovative Research in Science,Engineering and Technology Volume 4, Special Issue 10, August 2015[ISSN(PRINT):2347-6710 (ONLINE):2319-8753
35. Nirmal Kannan V and Rajaram Narayanan. “A review on the effect of process parameters on performance measurements of wire electrical discharge machining” Global journal of mechanical Engineering & Computational sciences, [ISSN 2277-6664(online):2249-3468(print)], Vol .3 No. 1, pp.36-39 (2013).

### **Papers Published In International/National Conferences**

- Presented International level Paper on “ Microgrid Energy Optimization and Realization by means of Plug-in Electric Vehicles in both V2G – G2V Environment” at 8<sup>th</sup> International



Conference on Communication and Electronics Systems, India on 1-3, June 2023.

- Presented National Level Paper on “Effect of Ball Radius on the Friction in Metal-on-Metal Total Disc Arthroplasty” at Karpaga vinayaga college of Engineering and Technology(2015)
- Presented National Level Paper on “Mechanical And Structural Characteristics Of P(Hema) Hydrogel For Lumbar Disc Prosthesis” at Karpaga vinayaga college of Engineering and Technology(2015)
- Presented International Level Paper on “Reliability of lean Tools” in the 5th International Conference (ICMEET 2015) at Magna College of Engineering, Chennai.(2015)
- Presented International Level Paper on “Applications of Artificial Intelligence in safe Human-Robot Interactions” in the 5th International Conference (ICMEET 2015) at Magna College of Engineering, Chennai.(2015)
- Presented International Level Paper on “Experimental Method on Cyclone Heat Exchanger” in the 5th International Conference (ICMEET 2015) at Magna College of Engineering, Chennai.(2015)
- Presented International Level Paper on Analysis of Requirements for an Artificial Intervertebral Disc with Selected Mechanical Properties” at Trinity college of Engineering, Pune (2013))
- Presented National Level Paper on “Engineering Judgement for Children bone” at Magna College of Engineering, Chennai.(2013)
- Presented National Level Paper on 'Transient Thermal Analysis of Axi-Symmetric Bodies with sparse Internal Heat Generation" at A.C.College of Engineering and Technology, Karaikudi.
- Presented National Level Paper on 'An Expert System for Extrusion Process" at JNTU College of Engineering, Anantapur, A.P.
- Participated in the International conference on 'Recent Advances in Heat Transfer" at Karunya institute of Technology and sciences, Coimbatore.
- Presented National Level Paper on “Innovative Electro magnetic braking system” at SAEINDIA(2014)

## **SUBJECTS TAUGHT**

### **Postgraduate Level**

Finite Element Analysis, Total Quality Management, Hydraulics & Pneumatic Control, Computer Integrated Manufacturing, Operations Management, Rapid Prototyping

### **Graduate Level**

Engineering Mechanics, Engineering Graphics, Kinematics of Machines, Design of Machine Elements, Strength of Materials, Fluid Mechanics, Total Quality Management, Manufacturing Technology, Unconventional Machining Processes, Design of Transmission Systems, Computer Integrated Manufacturing, Dynamics of Machines, Basic Civil and Mechanical Engineering, Mechanics of solids, Production Planning and Control, Process planning and cost estimation.



## **PROJECT GUIDANCE**

### **Postgraduate**

More than *twenty major projects* of M. Tech. /MBA courses have been guided in the areas of Operations Management, Quality control, Optimization Techniques, CAD, CAM, Technology Management, Automation, and its allied areas.

**Graduate** More than *forty major projects* guided at B. Tech. and B.E. level in the areas of Industrial Engineering, Manufacturing Technology, Total Quality Management, Hydraulics & Pneumatics, Quality Control, Optimization, CAD/CAM, CIM, Production Engineering, and various areas of Design.

## **SHORT TERM COURSES AND TRAINING ATTENDED**

- Participated in one day Workshop on “Rapid Prototyping Technology and its applications to industries in engineering and healthcare” at VIT Chennai.
- Participated in one day Workshop on Nanomaterials at Sri Venkateswara College of Engineering
- 3 Participated in two day National level Workshop on Advanced Engineering Optimization and Modeling using MATLAB & SCILAB at Saveetha Engineering College.
- 4 Participated in one day National Seminar on RESEARCH METHODOLOGY,PROJECTS & CONSULTANCY at Velammal Engineering College
- Participated in one day Workshop on Contemporary Approaches in Manufacturing Processes and Material Science at Agni College of Technology
- Participated in one day Workshop on Emerging Materials and applications at Aarupadai veedu institute of technology

## **GUEST LECTURES / INVITED TALKS / CHAIRED SESSION**

- **Acted as Expert Member for Staff Selection Committee to recruit Assistant Professor for Mohamed Sathak Polytechnic College (Govt.Aided)**
- **CONVENER for International Conference in Magna on Emerging Engineering Trends (ICMEET-2015) held on 27th and 28th April 2015**
- **CONVENER for International Conference in Magna on Emerging Engineering Trends (ICMEET2K14) held on 9, 10, 11 April 2014**
- Jury for logo drawing competition in magna college of engineering for College day (2014)
- **Chairperson of Organizing committee for National level conference(NCRTME-2K13), magna college of engineering(2013)**

## **TRAINING PROGRAM/WORKSHOP/SEMINAR ORGANIZED**

- Conducted Green Audit for Sri Ayyappa College, Nagercoil on 08.12.2023
- Conducted Environment Audit at Alagappa University, Karaikudi on 03.01.2023
- Conducted Green Audit for Holy Cross Home Science College, Thoothukudi on 08.12.2023
- Conducted Training Session on Leadership Skills to Women District Chairman, District Ward Members, Union Chairman of Eight District at Ramanathapuram Collectorate on



- Organized a workshop on reverse engineering by NSIC at Magna College of engineering
- Organized a workshop on Application of pro-engineer in part modeling and assembly by CPLR CHENNAI at Magna College of engineering
- Organized a workshop on CNC MACHINING, MILLING AND FDM APPLICATION BY SVP TECHNOLOGIES LTD at Magna College of engineering
- Conducted 10 days practical training classes for 6 students of ISHVVAR Institute of Prosthetics & Orthotics on Applied Mechanics, Strength of materials, Workshop technology, engineering materials at Magna College of engineering
- Arranged a Guest lecture on scope and application of CATIA software in core industries at Magna College of engineering
- Arranged a Technical Seminar on Aero modeling- Design and fabrication of micro air vehicles by JET WINGS TECHNOLOGIES LTD, Bangalore at Magna College of engineering

### **CONTRIBUTION TO TEACHING/ ACADEMIC ENVIRONMENT AND INSTITUTIONAL CORPORATE LIFE**

- **Head of the Department** – Supervising all Departmental Activities.(Magna College of Engineering)
- Signed MOU with Three Companies **for internship, placement** (2013) for Magna Engineering College Students
- Prepared Documents and power point presentation for **ISO and AICTE** inspection committee for a department.
- Acted as Department coordinator for **NBA (National Board for Accreditation)**.
- Taking Initiative for **R&D Cell** and planning for funded projects , Technical seminars.
- Guidance for arranging **internship and project** for final year students in Various industries.
- **Coordinator B.E. (Mechanical)** during the session 2007 to 2009.
- **Coordinator “Training and Placement”**, Department of Mechanical Engineering, SRM University (Vadapalani Campus).
- **Question Paper setter and Evaluator** for University Practical from other universities like, MGR, Sathyabama, Veltech,
- **Instrumental in developing** Manufacturing Technology Laboratory, Engineering Workshop, Dynamics laboratory, CNC machines etc.
- **Regional Coordinator** for B.E., B Tech., M.B.A, M Tech, etc. entrance examinations conducted by SRM University.
- **Chief Superintend/Examiner** for Anna University Examinations.
- As **Project coordinator** for UG and PG, Motivated the students to carry out various Projects in various disciplines.



- As **Technical Advisor** for Mechanical department, giving guidelines to do everything (both academic and non academic) in a perfect manner.
- As **Academic Purchase Coordinator** for college Level.
  
- **Flying Squad Member** for Zones 2 - Anna University Examination
- **Flying Squad Member** for Zones 1 - Anna University Examination

### ***PERSONAL DETAILS***

Date of Birth : 21 April 1982

Fathers Name : T. Veeru Bommu

Gender : Male

Marital Status : Married

Nationality : Indian

Address for Communication : #41 B, Anna nedunchalai, Amman Nagar, Oragadam, Ambattur O.T,  
chennai-600053

**(V.NIRMAL KANNAN)**















