

Dr. M. VARATHARAJULU

4A, Narungulal Nayagi Nagar,
Kallanai Road,
Thiruverumboor – 620 014.
Tiruchirappalli (Dt.).
Tamilnadu – INDIA.
Mobile No.: 09344327573
WhatsApp: 08610268158



Email : rajulu_production@yahoo.co.in
varatharajulu@gmail.com, rajulu@nitt.edu

Academic Profile:

QUALIFICATION	COLLEGE / SCHOOL	UNIVERSITY/ BOARD	YEAR OF PASSING	CLASS
<i>Ph. D. (Manufacturing)</i>	<i>Research centre – Saranathan College of Engineering, Trichy</i>	<i>Anna University</i>	<i>2018 [21.08.2018]</i>	<i>Commended</i>
<i>M. Tech., (Computer Aided Design)</i>	<i>Bharathiyar College of Engineering and Technology, Karaikal.</i>	<i>Pondicherry University</i>	<i>2012 [06.06.2012]</i>	<i>First class with distinction</i>
<i>M. B. A., (Financial Management)</i>	<i>Annamalai University, Annamalai Nagar.</i>	<i>Annamalai University</i>	<i>2009 [28.05.2009]</i>	<i>First</i>
<i>B. E., (Production Engineering)</i>	<i>Adhiyamaan College of Engineering, Hosur.</i>	<i>Anna University</i>	<i>2006 [31.05.2006]</i>	<i>First</i>
<i>H. S. C.</i>	<i>S. I. (B. M. S.) Higher Secondary School, Valoothoor.</i>	<i>State Board</i>	<i>2002</i>	<i>First</i>
<i>S. S. L. C.</i>	<i>S. I. (B. M. S.) Higher Secondary School, Valoothoor.</i>	<i>State Board</i>	<i>2000</i>	<i>First</i>

Working Experience:

S. No.	Name and Place of the Company / Institution	Designation	Period		Experience					
			From (DD/MM/YEAR)	To (DD/MM/YEAR)	Industry			Teaching		
					Y	M	D	Y	M	D
1	<i>Shri Chamundi Baking Equipments, Sakkottai, Kumbakonam.</i>	<i>Production Engineer Trainee</i>	<i>03.06.2006</i>	<i>05.02.2007</i>	<i>0</i>	<i>8</i>	<i>2</i>			
2	<i>Kali Material Handling System Private Limited, Kumbakonam.</i>	<i>Design Engineer</i>	<i>15.03.2007</i>	<i>27.05.2008</i>	<i>1</i>	<i>2</i>	<i>12</i>			
3	<i>Arasu Engineering College, Kumbakonam.</i>	<i>Lecturer</i>	<i>29. 05.2008</i>	<i>20.11.2010</i>				<i>2</i>	<i>5</i>	<i>22</i>
4	<i>A. V. C. College of Engineering, Mannampandal</i>	<i>Assistant Professor (AP)</i>	<i>07.06.2012</i>	<i>31.12.2013</i>				<i>1</i>	<i>6</i>	<i>24</i>
		<i>AP - During Research</i>	<i>01.01.2014</i>	<i>21.08.2018</i>				<i>4</i>	<i>7</i>	<i>20</i>
		<i>AP - After Research (Ph.D.)</i>	<i>22.08.2018</i>	<i>08.02.2020</i>				<i>1</i>	<i>5</i>	<i>17</i>
5	<i>National Institute of Technology, Tiruchirappalli</i>	<i>Post Doctoral Fellow</i>	<i>12.02.2020</i>	<i>14.12.2020</i>				<i>0</i>	<i>10</i>	<i>2</i>
Total Experience					1	10	14	10	11	24
TOTAL EXPERIENCE					12	Y	10	M	7	D

Computer Literacy:

Design software's : AutoCAD, Inventor, Solid Works, UG, ANSYS 10.0
 Packages : MS Office, Star Office, MAT Lab, VB6.0, Sigma plot
 Operating Systems : Windows 98 / XP / 2000 / 2007
 Optimization tools : Design Expert, Minitab, MATLAB

Areas of Interest:

- ✓ Modeling and Optimization of machining parameters
- ✓ Software development in the field of Mechanical Engineering
- ✓ Design, Computer Aided Design
- ✓ Computational Fluid Dynamics and Finite Element Analysis

Mini Project in under graduate:

1. Concave grinding fixture for Diamond Hone.
2. Injection moldings die for Buffer horn Cap.

Main Project in under graduate:

- ✓ “**Process Improvement on Manufacturing of Tubular Components for Boilers**” undergone at Bharat Heavy Electrical Limited, Trichy between 09.01.06 to 09.02.06.

Main Project in post graduate:

- ✓ Investigation of machining parameters for face milling operation using tungsten carbide cutter on different materials.

Title of the Ph.D. thesis

- ✓ Experimental Investigation and Modeling of Drilling Characteristics of Duplex Stainless Steels and Magnesium Alloy

Industrial Training:

1. Training undergone at Thiru Arooran sugars Limited, Thirumandankudi, Papanasam between 26.05.03 to 25.06.03.
2. Training undergone at Trichy Steel Rolling Mills Limited, Trichy between 12.05.04 to 19.05.04.
3. Training undergone at Ariyalur Cement Factory, Ariyalur between 01.06.05 to 15.06.05.

Co-curricular Activities:

1. Attended Workshop on “*Welding Technology and Failure Analysis*” conducted by ISTE, Adhiyamaan College of Engineering, Hosur on 01.09.03.
2. Attended One Day National Conference cum Workshop on “*Renewable Energy – Energy of the Future*” conducted by ISTE, Adhiyamaan College of Engineering, Hosur on 19.08.05
3. Attended Short Term Training Programme on “*Recent trends in Advanced Welding Technology*” between 16.06.08 to 20.06.08 conducted by Kings College of Engineering – Thanjavur.
4. Attended One day workshop on “*Finite Element Analysis*” conducted by A.V.C. College of Engineering, Mayiladuthurai, on 08.10.09.
5. Attended Two day workshop on “*Software Development in Finite Element Analysis*” conducted by Shanmuganathan Engineering College, Pudukkottai on 29.01.10 and 30.01.10.
6. Attended Programme on “*Quality Management System ISO 9001:2008*” conducted by A.V.C. College of Engineering, Mayiladuthurai on 04.01.11.
7. Attended Programme on “*Teaching Methodologies*” under the title “*Train The Trainers – 2011*” conducted by Anna University of Technology, Tiruchirappalli on 12.03.11.

8. Attended Two day workshop on ***“Finite element analysis using ANSYS”*** organized by Oxford Engineering College, Trichirappalli on 02.03.12 and 03.03.12.
9. Attended Five day workshop on ***“Digital Prototyping”*** conducted by ICT Academy of Tamil Nadu between 19.03.12 and 23.03.12 held at Sri Ramakrishna Engineering College, Coimbatore. [C. No.: 012 - 04951]
10. Attended one day Faculty development programme on ***“Mind without fear”*** organized by the Centre for University – Industry collaboration, Anna University, Chennai on 29.08.12 at A. V. C. College of Engineering, Mayiladuthurai.
11. Attended one week inter disciplinary STTP on ***“Application of Modeling and Simulation in Engineering Research”*** sponsored by ISTE and organized by Department of Mechanical Engineering and Department of Computer Science and Engineering during 10.12.12 to 15.12.12 at Annamalai University, Annamalai Nagar.
12. Attended ***“National Instrument LabVIEW”*** core 1 and core 2 courses of during 11.02.13 to 13.02.13 and 18.03.14 & 19.03.14 at A. V. C. College of Engineering, Mayiladuthurai.
13. Attended a short term course on ***“Production Processes for Defense Applications”*** organized by the Department of Production Engineering between 27.05.13 and 01.06.13 at National Institute of Technology, Tiruchirappalli.
14. Attended two day workshop on ***“Research Methods and tools”*** organized by the Department of Mechanical Engineering between 06.11.14 and 07.11.14 at A. V. C. College of Engineering, Mayiladuthurai.
15. Attended two day faculty development programme on ***“TEKLA BIM SOLUTIONS”*** organized by the Department of Mechanical and Civil Engineering between 20.02.15 and 21.02.15 at A. V. C. College of Engineering, Mayiladuthurai. [C. No.: TEKLA/STD – C/000]
16. Attended hands–on training programme on ***“SOFT COMPTING using MATLAB”*** organized by Department of Computer Technology between 09.10.15 and 11.10.15 at MIT campus, Anna University, Chennai.
17. Participated in the TEQIP – II sponsored course on ***“FOUNDATION SKILLS IN INTEGRATED PRODUCT DEVELOPMENT”*** organized by Bharathidasan Institute of Technology Campus, Anna University, Trichy in association with Anna university, Chennai in conformance with the Memorandum of understanding signed with the IT–ITeS sector skills council NASSCOM between 19.01.2016 and 23.01.2016. [C. No.: 9553]
18. Attended AICTE sponsored two day national workshop on ***“Application of Intelligent Techniques in Manufacturing Process”*** organized by the Department of Mechanical Engineering between 16.11.17 and 17.11.17 at Saranathan College of Engineering, Tiruchirappalli. [C. No.: AICTE/SG/MECH/2017-09]
19. Successfully completed QCad test organized at A.V.C College of Engineering by M. LATHA SENTHIL with course material provided by the Spoken Tutorial Project, IIT Bombay on 29.12.2018. This training is funded by National Mission on Education through ICT, MHRD, Govt., of India. [C. No.: 19638030PA]
20. Successfully completed Scilab test organized at A.V.C College of Engineering by M. LATHA SENTHIL with course material provided by the Spoken Tutorial Project, IIT Bombay on 26.12.2019. This training is funded by National Mission on Education through ICT, MHRD, Govt., of India. [C. No.: 1963803GKV]
21. Participated in National Level Online Quiz on “Digital Learning Resources” on 02.05.2020 conducted by Shree L R Tiwari College of Engineering, Mira Bhayandar, Maharashtra during the lockdown period.
22. Participated in webinar and live tour of “3D Printing, leading towards industry4.0” on 03.05.2020 between 4.00 to 4.45 pm through YouTube live streaming conducted by Dr. M. Senthil Kumar, 3DP, Chennai.
23. Attended webinar titled “Data Analytics Tools For Engineering Research” on 07.05.2020 presented by Chris Cogswell, PhD, Customer Consultant Engineering organized by BrightTALK during the lockdown period.
24. Participated in the national level online quiz competition on the topic of “Research Methodology” on 07.05.2020 conducted by The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi during the lockdown period (Certificate No. P7K8T8-CE002836).
25. Attended two week Faculty Development Programm and successfully completed LaTeX test organized at A.V.C College of Engineering by Dr. M. LATHA M with course material provided by the Spoken Tutorial Project, IIT Bombay on 26.12.2019. This training is funded by National Mission on Education through ICT, MHRD, Govt., of India during lockdown [C. No.: 2414329I1W].

Publication Details:

Gist of publications:

Conference		Journal		Total
National	International	National	International	
4	5	6	15	30
9		21 (SCI – 3, Scopus – 15)		

Conference details:

1. M. Varatharajulu and R. Rajendran presented a paper on “Software Development in Design” in the International Conference on Advances in Engineering and Technology 2011 (ICEAT 2011) held during May 27th and 28th 2011 conducted by E. G. S. Pillay Engineering College, Nagapattinam.
2. M. Varatharajulu and A. Haja Maideen presented a paper on “Design of machine elements using VB” in the National Conference on Trends and Advances in Manufacturing Engineering (TAME 2011) held during September 29th and 30th 2011 conducted by P. E. S. Institute of Technology, Bangalore.
3. M. Varatharajulu, C. Loganathan, K. Sivaramkrishnan and R. Ayyappan presented a paper on “Software Development in Gear Design” in the National Conference on Contemporary Approaches in Mechanical, Automobile and Building Sciences (NCCAMAB’ 14) on March 28th 2014 conducted by Karpaga Vinayaga College of Engineering and Technology, Kancheepuram.
4. S. Kannan, N. Baskar, B. Suresh Kumar and M. Varatharajulu presented a paper on “Investigation on optimum cutting condition in face milling of copper with HSS cutter using response surface methodology and genetic algorithm” in the International Conference on Innovative Trends in Mechanical and Civil Engineering (ICITMS – 2015) on April 10th 2015 conducted by PET Engineering College, Vallioor.
5. M. Varatharajulu, C. Loganathan and N. Baskar presented a paper on “Influence of cutting parameters on burr height and burr thickness in drilling of Duplex 2205 using high speed steel” in the International Conference on Trends in Engineering and Technology, Science & Humanities and Management 2015 (ICTETSHAM ‘15) held during February 19th and 20th 2015 conducted by Tamizhan College of Engineering and Technology, Chenbagaramanputhooor.
6. M. Varatharajulu, C. Loganathan and N. Baskar presented a paper on “Influence of cutting parameters on roughness and roundness in drilling of Duplex 2205 using high speed steel” in the International Conference on Trends in Engineering and Technology, Science & Humanities and Management 2015 (ICTETSHAM ‘15) held during February 19th and 20th 2015 conducted by Tamizhan College of Engineering and Technology, Chenbagaramanputhooor.
7. S. Kannan, N. Baskar, M. Varatharajulu and B. Suresh Kumar presented a paper on “Modeling and optimization of face milling parameters on brass component using response surface methodology and genetic algorithm” in the International Conference on Trends in Engineering and Technology, Science & Humanities and Management 2015 (ICTETSHAM ‘15) held during February 19th and 20th 2015 conducted by Tamizhan College of Engineering and Technology, Chenbagaramanputhooor.
8. S. Vijayaraj and M. Varatharajulu presented a paper on “Optimisation of process parameters of wet scrubbing of biogas from a night soil and vegetable waste using Taguchi” in the National Conference on Evolution of Green Energy and Vehicle Technology (NCEGEVT – 2K15) held during March 2nd and 3rd 2015 conducted by Sri Venkateswara College of Engineering, Chennai.
9. M. Varatharajulu, N. Arun and T. Bharathy Raja presented a paper on “A Software Development for Cost Estimation of Engineering Process” in the National Conference on Mathematical Modeling for Engineering (NCMME 2017) held during April 8th 2017 conducted by A. V. C. College of Engineering, Mannampandal.

Journal details:

1. M. Varatharajulu and R. Rajendran, "Software Development in Design", CiiT International Journal of Software Engineering and Technology, Vol. 3, No. 8, pp. 366 – 371, 2011. (August 2011 issue)
Print : ISSN 0974 – 9748, Online : ISSN 0974 – 9632, DOI : SE082011008
Link : <http://ciitresearch.org/dl/index.php/set/article/view/SE082011008>
2. M. Varatharajulu, C. Loganathan, K. Sivaramakrishnan and R. Ayyappan, "A Software Development in Gear Design", IOSR Journal of Mechanical and Civil Engineering (IOSR–JMCE), Vol. 1, No. 3, pp. 11 – 24, 2014.
Print : ISSN 2320 – 334X, Online : ISSN 2278 – 1684
Link : <http://www.iosrjournals.org/iosr-jmce/papers/NCCAMABS/Volume-1/3.pdf>
3. S. Kannan, N. Baskar, B. Suresh Kumar and M. Varatharajulu, "Investigation on optimum cutting condition in face milling of copper with HSS cutter using response surface methodology and genetic algorithm" International Journal of Applied Engineering Research, Vol. 10, No. 57, pp. 243 – 248, 2015. (0.667 credit point) (Scopus Indexed) (IF 0.51)
*AU Annexure II S. No. : 8565
ISSN : 0973 – 4562
Link : <https://www.ripublication.com/Volume/ijaerv10n57spl.htm>
Link : https://www.ripublication.com/ijaerspl3/ijaerv10n57_43.pdf
4. M. Varatharajulu, C. Loganathan, and N. Baskar, "Influence of cutting parameters on burr height and burr thickness in drilling of Duplex 2205 using Solid Carbide" International Journal of ChemTech Research, Vol. 8, No. 2, pp. 768 – 777, 2015. (2 credit point) (Scopus Indexed) (IF 0.47)
AU Annexure II S. No. : 8651
ISSN : 0974 – 4290
Link : http://sphinxsai.com/2015/ch_vol8_no2/6/%28768-777%29V8N2.pdf
5. M. Varatharajulu, C. Loganathan, and N. Baskar, "Influence of cutting parameters on roughness and roundness in drilling of Duplex 2205 using High speed steel" International Journal of Applied Engineering Research, Vol. 10, No. 76, pp. 129 – 136, 2015. (2 credit point) (Scopus Indexed) (IF 0.51)
AU Annexure II S. No. : 8565
ISSN : 0973 – 4562
Link : <https://www.ripublication.com/Volume/ijaerv10n76spl.htm>
Link : http://www.ripublication.com/ijaerspl3/ijaerv10n76spl_21.pdf
Username : IJAERSPL, Password : IJAERSPL*567#RIP
6. M. Varatharajulu, C. Loganathan, N. Baskar and S. Kannan, "Influence of cutting parameters on burr height and burr thickness in drilling of Duplex 2205 using High speed steel" International Journal of Applied Engineering Research, Vol. 10, No. 76, pp. 381 – 388, 2015. (2 credit point) (Scopus Indexed) (IF 0.51)
AU Annexure II S. No. : 8565
ISSN : 0973 – 4562
Link : <https://www.ripublication.com/Volume/ijaerv10n76spl.htm>
Link : http://www.ripublication.com/ijaerspl3/ijaerv10n76spl_55.pdf
7. S. Kannan, N. Baskar, M. Varatharajulu and B. Suresh Kumar, "Modeling and optimization of face milling parameters on brass component using response surface methodology and genetic algorithm" International Journal of Applied Engineering Research, Vol. 10, No. 76, pp. 219 – 224, 2015. (0.667 credit point) (Scopus Indexed) (IF 0.51)
AU Annexure II S. No. : 8565
ISSN : 0973 – 4562
Link : <https://www.ripublication.com/Volume/ijaerv10n76spl.htm>
Link : https://www.ripublication.com/ijaerspl3/ijaerv10n76spl_31.pdf
8. S. Vijayaraj and M. Varatharajulu, "Optimisation of process parameters of wet scrubbing of biogas from night soil and vegetable waste using historical and Taguchi design" Progress in Industrial Ecology – An International Journal, Vol. 9, No. 2, pp. 168 – 181, 2015. (2 credit point) (Scopus Indexed) (IF 0.43) (Cite score 1.3 - 2019)
AU Annexure II S. No. : 16703
Print ISSN : 1476 – 8917, Online ISSN : 1478 – 8764
Article DOI : 10.1504/PIE.2015.073082
Link : <https://www.inderscience.com/info/inarticle.php?artid=73082>

*AU – Anna University

9. S. Kannan, N. Baskar, B. Suresh Kumar and M. Varatharajulu, "Optimization of Face Milling Parameters for Material Removal Rate and Surface Roughness on Inconel 718 using Response Surface Methodology and Genetic Algorithm" Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 9, pp. 1198 – 1211, 2016.
 AU Annexure I S. No. : 8565
 ISSN : 2249 – 7315 Article DOI : 10.5958/2249-7315.2016.00864.9
 Link : <http://www.indianjournals.com/ijor.aspx?target=ijor:ajrssh&volume=6&issue=9&article=097>
10. C. Francis Vimal Raj, C. Sundarraj, M. Varatharajulu and A. Thiagarajan, "Influence of Twisted Tape Insert on Overall Heat Transfer Coefficient and Effectiveness Characteristic of Automobile Radiator" Journal of Advances in Chemistry, Vol. 12, No. 14, pp. 4695 – 4703, 2016.
 AU Annexure I S. No. : 8565
 ISSN : 2249 – 7315
 Article DOI : <https://doi.org/10.24297/jac.v12i14.474>
 Link : <https://rajpub.com/index.php/jac/article/view/474jac/460>
11. S. Kannan, B. Suresh Kumar, N. Baskar and M. Varatharajulu, "Selection of Machining Parameters of Face Milling operation for Aluminium with HSS cutter using Response Surface Methodology and Genetic Algorithm" Journal of Advances in Chemistry, Vol. 12, No. 16, pp. 4938 – 4949, 2016.
 AU Annexure I S. No. : 8565
 ISSN : 2249 – 7315
 Article DOI : <https://doi.org/10.24297/jac.v12i16.3001>
 Link : <https://rajpub.com/index.php/jac/article/view/3001/2918>
12. M. Varatharajulu, G. Jayaprakash, N. Baskar and B. Suresh Kumar, "Comparison of Response Surface Methodology and Taguchi analysis for determining appropriate drilling parameters of Duplex 2205" Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 1, pp. 1237 – 1251, 2017.
 AU Annexure I S. No. : 8565
 ISSN : 2249 – 7315 Article DOI : 10.5958/2249-7315.2017.00058.2
 Link : <http://www.indianjournals.com/ijor.aspx?target=ijor:ajrssh&volume=7&issue=1&article=096>
13. M. Varatharajulu, N. Arun, and T. Bharathy Raja, "A Software Development for Cost Estimation of Mechanical Components" Global Journal of Pure and Applied Mathematics, Special Issue Vol. 13, No. 2, pp. 384 – 394, 2017. (Scopus 2010 - 2016)
 AU Annexure II S. No. : 7185
 Print ISSN : 0973 – 1768, Online ISSN : 0973 – 9750
 Link : <https://www.ripublication.com/Volume/gjpamv13n2spl.htm>
14. M. Varatharajulu, G. Jayaprakash, N. Baskar, and R. Narayanasamy, "Experimental investigation and multi objective optimization of Duplex 2304 drilling operation using evolutionary algorithm" International Journal Manufacturing Technology and Management, Vol. 32, No. 4/5, pp. 336 – 357, 2018. (2 credit point) (Scopus Indexed) (Cite score 0.7 - 2019)
 AU Annexure I S. No. : 5046
 Print ISSN : 1368 – 2148, Online ISSN : 1741 – 5195
 Link : <http://www.inderscience.com/info/inarticle.php?artid=93349>
 DOI : 10.1504/IJMTM.2018.10014117
15. M. Varatharajulu, G. Jayaprakash, and N. Baskar, "Evaluation of fuzzy logic modelling and response surface methodology modelling for determining appropriate drilling parameters of magnesium AZ91" International Journal of Manufacturing Technology and Management. (Accepted for publication). (Scopus Indexed)
 AU Annexure I S. No. : 5046
 Print ISSN : 1368 – 2148, Online ISSN : 1741 – 5195
 Link : <http://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijmtm>
 DOI : 10.1504/IJMTM.2017.10016088
16. A. Hajamaideen, M. Duraiselvam, and M. Varatharajulu, "Application of Desirability Function Approach for optimized process parameters of Electrical Discharge Alloying of Al 7075 with Nickel powder" Transactions of the Indian Institute of Metals, Vol. 72, No. 7, pp. 1901 – 1916, 2019. (1 credit point) (SCI and Scopus Indexed) (IF 1.205 - 2019)
 AU Annexure I S. No. : 11180
 Print ISSN : 0972-2815, Online ISSN : 0975-1645
 Link : <https://link.springer.com/content/pdf/10.1007%2Fs12666-019-01666-4.pdf>
 DOI : 10.1007/s12666-019-01666-4

17. A. Hajamaideen, M. Duraiselvam, and M. Varatharajulu, "Synthesis of alloying Al 7075 with Molybdenum for Functional Characterization" International Journal of Recent Technology and Engineering, Blue Eyes Intelligence Engineering & Sciences Publication, Vol. 8, No. 3, pp. 5092 – 5103, 2019. (1 credit point) (Scopus Indexed) (IF 1.205 - 2019)
 Online ISSN : 2277-3878
 Link : <https://www.ijrte.org/wp-content/uploads/papers/v8i3/C5717098319.pdf>
 DOI : 10.35940/ijrte.C5717.098319
18. M. Varatharajulu, G. Jayaprakash, N. Baskar, B. Suresh kumar, S. Kannan, and A. Haja Maideen, "Evaluation of desirability function approach and genetic algorithm optimization of drilling characteristics on Duplex 2205" Materials Today Proceedings, Vol. 22, pp. 589 – 600, 2020. (2 credit point) (Scopus Indexed) (IF – 0.97, 2019)
 Online ISSN : 2214-7853
 Link : <https://doi.org/10.1016/j.matpr.2019.08.225>
 DOI : 10.1016/j.matpr.2019.08.225
19. A. Hajamaideen, M. Duraiselvam, and M. Varatharajulu, "Surface Modification of Aluminium 7075 by Electrical Discharge Alloying and influence of Surface Roughness using RSM" Materials Today Proceedings. (Accepted for publication) (1 credit point) (Scopus Indexed) (IF – 0.97, 2019)
 Online ISSN : 2214-7853
 Link : <https://doi.org/10.1016/j.matpr.2020.05.223>
 DOI : 10.1016/j.matpr.2020.05.223
20. G. Vijayan, R. Senthil, M. Varatharajulu, R. Karunakaran, "Application of Response Surface Methodology to Predict the Optimized Input Quantities of Parabolic Trough Concentrator" International Journal of Renewable Energy Development, Vol. 9, No. 3, pp. 393-400. (Cite score 1.9 - 2019) (IF – 0.503 during 2019 SNIP)
 Online ISSN : 2252-4940
 Link : <https://ejournal.undip.ac.id/index.php/ijred/article/view/30092>
 DOI : <https://doi.org/10.14710/ijred.2020.30092>
21. M. Varatharajulu, G. Jayaprakash, N. Baskar, and A. Saravanan, "Genetic Algorithm-Assisted Artificial Neural Network for the Estimation of Drilling Parameters of Magnesium AZ91 in Vertical Milling Machine" Surface Review and Letters, Vol. 27, No. 10, pp. 1950221-1 - 1950221-15. (SCI and Scopus Indexed) (IF – 0.835 during 2019)
 AU Annexure I S. No. : 10922
 Print ISSN : 0218-625X, Online ISSN : 1793-6667
 Link : <https://www.worldscientific.com/doi/abs/10.1142/S0218625X19502214>
 DOI : <https://doi.org/10.1142/S0218625X19502214>
22. M. Varatharajulu, R. Shahithya, G. Jayaprakash, N. Baskar, and J. Paulo Davim, "Evaluation of desirability function approach and grey relation analysis for modeling circularity, perpendicularity and cylindricity in drilling Magnesium AZ31" Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. (Published in online) (SCI and Scopus Indexed) (IF – 1.606 during 2019)
 AU Annexure I S. No. : 9688
 Print ISSN : 0954-4089, Online ISSN : 2041-3009
 Link : <https://journals.sagepub.com/doi/10.1177/0954408920952753>
 Link supplementary : <https://journals.sagepub.com/doi/suppl/10.1177/0954408920952753>
 DOI : <https://doi.org/10.1177/0954408920952753>

Personal Details:

Parents Name : Mr. V. Muthukrishnan & Mrs. M. Susila
 Permanent Address : 24/16, West Street, Thiruppalaithurai, Papanasam – 614 205.
 Thanjavur (District). Tamilnadu State – INDIA.
 Date of Birth : 27.02.1985
 Sex : Male
 Marital Status : Married
 Language known : English, Tamil and Telugu (To Speak); English and Tamil (To Write)
 AICTE Unique ID : 1-424052396
 Anna University ID : 8203053
 Institutions mail ID : varatharajalum@avccengg.net, rajulu@nitt.edu

Scopus Author ID : 56711985800 (<https://www.scopus.com/authid/detail.uri?authorId=56711985800>)
 Google Scholar link : <https://scholar.google.com/citations?user=-rv4q08AAAAJ>
 Blog : <http://varatharajulu.blogspot.com/>
 Research gate score : 9.49 (https://www.researchgate.net/profile/Varatharajulu_Muthukrishnan)
 ORCID ID : 0000-0003-2087-324X (<https://orcid.org/0000-0003-2087-324X>)
 Researcher ID : A-6107-2016 (<https://publons.com/researcher/1574264/varatharajulu-m/>)
 LinkedIn : <https://www.linkedin.com/in/varatharajulu-muthukrishnan-56652a108/>
 Skype ID : live:.cid.fbe5af5a55389202
 Zoom ID : 282-901-6730

Extra-curricular Activities:

- ✓ Life Member of ISTE (LM62779) Chapter.
- ✓ Actively participated in NSS and have attended many social service camps during college days.
- ✓ Completed type writing English senior.

Details of the Industrial Experience:

S. No.	Name of the Company	Designation	Nature of Work	Period	Duration
1	<i>Shri Chamundi Baking Equipments, Sakkottai, Kumbakonam.</i>	<i>Production Engineer Trainee</i>	<ul style="list-style-type: none"> ➤ <i>Verification and maintenance of the Process charts.</i> ➤ <i>Assigning the work load to the workers.</i> ➤ <i>Quality control</i> 	<i>03.06.06 – 05.02.07</i>	<i>8 Month</i>
2	<i>Kali Material Handling System Private Limited, Kumbakonam.</i>	<i>Design Engineer</i>	<ul style="list-style-type: none"> ➤ <i>Design of Idlers and Pulley.</i> ➤ <i>Preparation of Order and Purchase Bill of Material, Quality Assurance Plan, Quality Verification Plan.</i> ➤ <i>Preparation of Process charts from the customer drawing.</i> ➤ <i>Maintenance of the ISO File.</i> ➤ <i>Quality Control</i> 	<i>15.03.07 – 27.05.08</i>	<i>1 Year 2 Months</i>

Details of the Academic Experience:

S. No.	Year	Semester	Class	Subject / Laboratory Handled
Arasu Engineering College, Kumbakonam				
1	2008 – 2009	Odd	<i>IV Mech</i>	<i>Process Planning and Cost Estimation</i>
			<i>III Mech</i>	<i>Design of Machine Elements</i>
			<i>I Mech</i>	<i>Engineering Practices Laboratory</i>
2		Even	<i>III Mech</i>	<i>Design of Transmission systems</i>
			<i>I EEE</i>	<i>Basic Mechanical Engineering</i>
			<i>III Mech</i>	<i>Mini Project Coordinator</i>
3	2009 – 2010	Odd	<i>IV Mech</i>	<i>Introduction of Finite Element Analysis</i>
			<i>III Mech</i>	<i>Design of Machine Elements</i>
			<i>I Mech</i>	<i>Engineering Practices Laboratory</i>
4		Even	<i>I Civil</i>	<i>Engineering Mechanics</i>
			<i>I EEE & ECE</i>	<i>Basic Mechanical Engineering</i>
			<i>I Civil</i>	<i>Computer Aided Drafting and Modeling Laboratory</i>

A. V. C. College of Engineering, Mannampandal.					
5	2012 – 2013	Odd	IV Mech	Finite Element Analysis	
			I CSC	Engineering Graphics	
			IV Mech	Computer Aided Simulation and Analysis Laboratory	
6		Even	III Mech	Design of Transmission systems	
			III Mech	CAD / CAM Laboratory	
			II Mech	Strength of Materials	
7	2013 – 2014	Odd	IV Mech	Finite Element Analysis	
			III Mech	Design of Machine Elements	
			IV Mech	Computer Aided Simulation and Analysis Laboratory	
			II Mech	Manufacturing Technology I Laboratory	
8		Even	III Mech	Finite Element Analysis	
			II Mech	Computer Aided Machine Drawing Laboratory	
			I Mech	Computer Aided Drafting and Modeling Laboratory	
9		2014 – 2015	Odd	II Mech	Strength of Materials (For two section)
	IV Mech			Computer Aided Simulation and Analysis Laboratory	
10	Even		III Mech	Finite Element Analysis	
			IV Mech	Project work coordinator	
			IV Mech	Comprehension (One of the faculty)	
			II Mech	Strength of materials laboratory (Assisting faculty)	
11	2015 – 2016		Odd	II Mech	Strength of Materials
				IV Mech	Computer Aided Simulation and Analysis Laboratory
				III Mech	Metrology and Measurements Lab (Assisting faculty)
				I CSE	Engineering Graphics (Assisting faculty for three hours)
12		Even	III Mech	Finite Element Analysis	
			IV Mech	Project work coordinator	
			III Mech	CAD / CAM Laboratory	
13		2016 – 2017	Odd	IV Mech	Process Planning and Cost Estimation
	III Mech			Design of Machine Elements	
	IV Mech			Comprehension (One of the faculty)	
	IV Mech			Simulation and Analysis Laboratory	
14	Even		III Mech	Finite Element Analysis	
			I ICE	Basic Mechanical Engineering	
			IV Mech	Project work coordinator	
15	2017 – 2018		Odd	III Mech	CAD / CAM Laboratory
		IV Mech		Process Planning and Cost Estimation	
		III Mech		Design of Machine Elements	
		IV Mech		Comprehension (One of the faculty)	
16		Even	IV Mech	Simulation and Analysis Laboratory	
			III Mech	Finite Element Analysis	
			I EEE	Basic Mechanical Engineering	
17		2018 – 2019	Odd	IV Mech	Project work coordinator
	III Mech			CAD / CAM Laboratory	
	III Mech			Design of Machine Elements	
	I Mech			Engineering Graphics	
18	Even		IV Mech	Comprehension (One of the faculty)	
			IV Mech	Simulation and Analysis Laboratory	
19	2019 – 2020 Even semester till 08.02.2020		Odd	III Mech	Finite Element Analysis
				III Mech	CAD / CAM Laboratory
		III Mech		Design of Machine Elements	
20		Even	I Mech	Engineering Graphics	
			IV Mech	Simulation and Analysis Laboratory	
				III Mech	Finite Element Analysis
			II Mech	Strength of Materials	

Responsibilities' other than subject and Laboratory:

S. No.	Year	Semester	Responsibility
Arasu Engineering College, Kumbakonam			
1	2008 – 2009	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for final year twenty students. 2. Department activities file in-charge. 3. Counselling file in-charge. 4. Acted as a leading audit member for the yearly auditing conducted at college library. 5. Workshop in-charge.
2	2009 – 2010	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for third year twenty two students. 2. Department activities file in-charge. 3. Counselling file in-charge. 4. Chairperson for the second year class committee meeting. 5. Acted as a leading audit member for the yearly auditing conducted at Computer science laboratory. 6. Workshop in-charge.
A. V. C. College of Engineering, Mannampandal.			
3	2012 – 2013	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for third year second batch students. 2. Carpentry, Fitting, Foundry, Metallurgy, Sheet metal, Smithy, Plumbing & Welding – Laboratory in-charge. 3. Second year result analysis in-charge. 4. In-charge for NBA Maintenance plan file, Academic results file. 5. In-charge for NAAC teaching learning process criteria. 6. Time table Incharge.
4	2013 – 2014	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for final year second batch students. 2. CAD / CAM – Laboratory in-charge. 3. Third year result analysis in-charge. 4. In-charge for NBA Maintenance plan file, Academic results file. 5. In-charge for NAAC teaching learning process criteria. 6. Time table Incharge. 7. Member in Quality Improvement Cell 8. AICTE web portal Incharge
5	2014 – 2015	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for second year second batch students. 2. CAD / CAM – Laboratory in-charge. 3. Final year result analysis in-charge. 4. Department Placement Coordinator 5. Final year Project Incharge 6. Member in Quality Improvement Cell 7. AICTE web portal Incharge
6	2015 – 2016	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for third year second batch students. 2. CAD / CAM – Laboratory in-charge. 3. Department Placement Coordinator 4. Final year Project Incharge 5. Member in Quality Improvement Cell 6. Second year class Incharge 7. Stock verification member at NSS 8. NIRF Department coordinator 9. AICTE web portal Incharge
7	2016 – 2017	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for final year second batch students. 2. CAD / CAM – Laboratory in-charge. 3. Department Placement Coordinator 4. Final year Project Incharge 5. Member in Quality Improvement Cell 6. Third year class Incharge 7. NIRF Department coordinator 8. AICTE web portal Incharge

8	2017 – 2018	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for second year first batch students. 2. CAD / CAM – Laboratory in-charge. 3. Department Placement Coordinator 4. Final year Project Incharge 5. Member in Quality Improvement Cell 6. Final year class Incharge 7. NIRF Department coordinator 8. AICTE web portal Incharge
9	2018 – 2019	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for third year first batch students. 2. CAD / CAM – Laboratory in-charge. 3. Department Placement Coordinator 4. Member in Quality Improvement Cell 5. NIRF Department coordinator 6. AICTE web portal Incharge 7. NAAC Criteria 3 – Department manager
10	2019 – 2020 Even semester till 08.02.2020	Odd & Even	<ol style="list-style-type: none"> 1. Counselling in-charge for final year first batch students. 2. CAD / CAM – Laboratory in-charge. 3. Department Placement Coordinator 4. Member in Quality Improvement Cell 5. NIRF Department coordinator 6. AICTE web portal Incharge 7. NAAC Criteria 3 – Department manager 8. NBA Department coordinator 9. Syllabus framed for Value Added Course for final year students

Project guidance details: (0.25 per project)

S. No.	Register Number	Name	Mobile Number	Email Id	External guide details (if any)	Title of the Project
Batch 2009 – 2013						
1	80109144006	T. Benny peter	8682974188	senseibennypeter@gmail.com	Mechanical Property Analysis of Banana Fiber with Glass Fiber Hybrid Composites	
	80109144008	R. Boobalan	9489257178	bbalan63@gmail.com		
	80109144018	M. Ganesh Kumar	8015000260	ganeshkumarmech09@gmail.com		
	80109144023	M. Kalaiselvan	9566382663	kalaiselvanmech23@gmail.com		
2	801091440029	R. Nandhaprasad	8056533476	greatandha@gmail.com	Experimental investigation of face milling operation on Copper using HSS and tungsten carbide	
	801091440043	A. V. K. Sreekanth	7708325411	ksrikanth281@gmail.com		
	80109144044	U. Sunil	7418130109	sunilumarshi@gmail.com		
	80109144060	N. Yogeshwaan	8015164674	friends.yogi@gmail.com		
Batch 2010 – 2014						
3	80110144002	L. Anand kumar	9159183300	anandln002@gmail.com	Optimization of Process Input Parameters of Drilling Operation on Magnesium AZ91B	
	80110144005	M. Aravindan	8122450523	aravindan10me05@gmail.com		
	80110144042	R. Rajendraprasath	9597699509	rajeprasad@gmail.com		
	80110144048	S. Senthamizh	8122633814	senthamil234@gmail.com		
4	80110144040	J. Rajarethinam	9865551993	rajarethinamj@gmail.com	Experimental Investigation of Process Input Parameters of Drilling Operation on Duplex 2205	
	80110144045	B. Sarath kumar	7639707156	balusarath9@gmail.com		
	80110144046	G. Saravanan	9788562944	saravanag93@gmail.com		
	80110144505	S. Muthukumar	9043593153	smkumar1357@gmail.com		
5	80110144028	R. Manikandan	8056466042	manikandan.raju93@gmail.com	Investigation of Process Input Parameters of Drilling Operation on Duplex 2304	
	80110144031	A. Mohammed Jaffir	8903981572	jaffirhardy@gmail.com		
	80110144041	K. Rajavarman	8903922988	rajavarman025@gmail.com		
	80110144056	P. Venkatesh	9003461625	vankatesh1993mech@gmail.com		

S. No.	Register Number	Name	Mobile Number	Email Id	Title of the Project
Batch 2011 – 2015					
6	820311114061	Vignesh. V	9597853406	vignesh8694@gmail.com	Experimental investigation of process input parameter of drilling operation on Duplex 2205
	820311114016	Gokulraj. D	9751159300	raj181115@gmail.com	
	820311114050	Sridhar. M. G	7373345056	mgsri94@gmail.com	
	820311114034	Prabu. K	8883030226	prabu3417@yahoo.com	
7	820311114062	Vimalraj. K	8807368538	kvimalraj6@hotmail.com	Optimization of process input parameters of drilling operation on magnesium AZ91B
	820311114040	Rajesh .M	8124682989	rajeshm.mech@gmail.com	
	820311114041	Ram Kumar. S	9597662240	ragulkumar@gmail.com	
	820311114311	Vidhayathar .S	9488062585	vidhyathar@gmail.com	
8	820311114308	Rathinavel Pandian. S	9790034505	pandisr@ymail.com	Investigation of process input parameters of drilling operation on duplex 2304
	820311114021	Jothiraj. K	9994264363	jothiraj094@gmail.com	
	820311114038	Premnath .M	7845140619	mani.prem.1994@gmail.com	
	820311114015	Giridharan. R	8675903829	rgiridharan18@gmail.com	
Batch 2012 – 2016					
9	820312114011	Dhilipkumar. K	9843498926	kdhilipkumar001@gmail.com	Experimental investigation of process input parameters for drilling operation on Duplex 2205
	820312114021	Karthick. S	8760993394	karthicksellappanks@gmail.com	
	820312114020	Karthick. K.V	9994126869	kvkarthickbe@gmail.com	
	820312114057	Vignesh. B	9659175926	vikky.suncity@gmail.com	
10	820312114013	Dhivahar. D	8870518996	dhivacena@gmail.com	A study on the influence of cutting parameters for drilling operation on Duplex 2304
	820312114034	Pradeeparathinam. M	9488800337	pradeepraja2794@gmail.com	
	820312114043	Sanjay. R	8056561542	sanjaypersonal94@gmail.com	
	820312114050	Subbaiyan. M	9698211592	subbaiyan9611@gmail.com	
Batch 2013 – 2017					
11	820313114073	S. Prasanna Raj	9443231103	prasannarajsridharan95@gmail.com	Fuzzy mathematical model for process input parameters of drilling operation on Duplex 2304
	820313114098	T. Sujendran	8012772435	sujendranpts@gmail.com	
	820313114107	R. Venkatesan	9688867982	venkatesan.ru@gmail.com	
	820313114111	K. Vignesh	9940557107	vickykannan273@gmail.com	
12	820313114086	G. Ramnaresh	7418568738	g.ramnaresh96@gmail.com	A study of neural network modeling for obtaining appropriate input parameters in drilling Duplex 2304
	820313114089	S. Revanth	9865560252	srevanth2211@gmail.com	
	820313114092	R. Senthilkumar	8015662503	senthilraj0395@gmail.com	
	820313114320	K. Siranjeevi	9626389180		
Batch 2014 – 2018					
13	820314114019	Athikesavan K	8190024235	athikesevankmec1997@gmail.com	Mathematical modeling through artificial neural network for drilling response of Mg AZ91
	820314114024	Balamurugan K	9715963242	welcometobalamech@gmail.com	
	820314114040	Kaniyazhagan K	8525848511	kaniyazhagan123@gmail.com	
	820314114043	Karthick B	9486364912	karthi.spark97@gmail.com	
Batch 2015 – 2019					
14	820315114007	Anbarasu. R	8870356270	aanbarasu007@gmail.com	Optimization on drilling operation of Magnesium AZ31 using solid carbide tool
	820315114041	Hari Prasath. K	7639993420	prasathgkh@gmail.com	
	820315114045	Kabil Dev Kanithkar. G	7868943070	gkabildk@gmail.com	
	820315114047	Karthick. P	8903739919	karthickaravi17@gmail.com	
15	820315114086	Shahithya. R	7373649873	jujuindu@gmail.com	Process parameter optimization of drilling on Magnesium AZ31 using High Speed Steel
	820315114118	Williampaulwesley. V	9003377128, 9715356143	ywpwesleydravidan@gmail.com	
	820315114314	Rizvanudeen. Z	9003541106	royalrizvan@gmail.com	
	820315114319	Vijay. M	9003572913	vijaymech497@gmail.com	

Responsibility assigned by Election Commission: (Outreach activity)

- ✓ Acted as a **Presiding Officer** in the General Lok Sabha Election 2014 held on 24.04.2014.
Unique Number : 1910103
Team Code : 84
Assembly segment : 164 – Kilvelur
Polling station : 193 – Panchayat Union Elementary School, Sithaimoor.
Parliamentary Constituency : 29 – Nagapattinam

Consultancy Projects (Responsibility assigned by Cooperative Marketing Society: (0.08 Credit)

- ✓ Acted as a **Technical Committee member**, for the erection and commissioning of Mini dhal Mill at Chidambaram, appointed by The Managing Director, Agricultural Producers Cooperative Marketing Society, Chidambaram, during 2015. (28.10.2014 to 27.06.2015)

Details of special lectures:

- ✓ Acted as a Resource person for the one day workshop titled “Hands on training for the applications of Design-Expert” conducted by the Department of Mechanical Engineering, A. V. C. College of Engineering, Mannampandal on 08.05.2017.

Reviewer for the Journal:

- ✓ American Journal of Food Science and Technology, Science and Education Publishing, USA.
- ✓ Journal of Advances in Chemistry, CIRWORLD Publishers, India.
- ✓ Premier Publishers, Lagos, Nigeria.
- ✓ Proceedings of the Institution of Mechanical Engineers Part H-Journal of Engineering in Medicine (SAGE Publishers – Anna University Annexure I Journal)
- ✓ International Journal of Computer Integrated Manufacturing (Taylor & Francis Ltd - Anna University Annexure I Journal)

Editor for the Journal:

- ✓ International Journal of Materials Sciences (Research India Publication) (From 19.05.18)
(http://www.ripublication.com/editorial_board_of_ijoms.htm)

Details of programme coordination: (1.2 credit)

- ✓ Acted as a Coordinator for the three day faculty development programme titled “Applications of AUTODESK software” conducted by the Department of Mechanical Engineering, A. V. C. College of Engineering, Mannampandal between 20.06.2017 and 22.06.2017.

Value Added Course:

- ✓ Syllabus designed for Value added course titled “A course on competency in product design and development” during 2019 – 2020 even semester. This will elevate 80 numbers of final year students knowledge level in the topic designed.

E-Learning / ICT based methodology adopted for teaching

- ✓ Online content developed for the subject “Finite Element Analysis” and it was disseminated to the student community. The Mechanical Engineering students learn the subject during their sixth semester. The following link is used to view the contents. <http://www.avccengg.net/WWW/material/viewfiles.php?name=varatharajulu>

Details of webinar taken:

- ✓ Acted as a **Resource person** for the webinar conducted by the Department of Mechanical Engineering, Kings College of Engineering, Punalkulam on 22.07.2020 and presented a topic on “Application of Design-Expert software in Manufacturing Industry”.
- ✓ Acted as one among a **Resource person** for the one week online FPD on “Evolving Trends in Research” (24.08.2020 to 28.08.2020) conducted by the Department of Mechanical Engineering, AGNEL Institute of Technology and Design, Assagao, Goa and presented a topic on “Application of Design-Expert software in Manufacturing Industry” on 27.08.2020.

References:

Dr. G. Jayaprakash, Professor and Head, Department of Mechanical Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirapalli - 620 012. Tamilnadu, India. 9442491292, jayaprakashcad@gmail.com	Dr. S. Kannan, Principal, A. V. C. Polytechnic College, Mannampandal 609 305, Mayiladuthurai, Tamilnadu, India. 9443780308, kvlgoodeye@gmail.com
Dr. S. Vijayaraj, Professor and Head, Department of Mechanical Engineering, A. V. C. College of Engineering, Mannampandal 609 305, Mayiladuthurai, Tamilnadu, India. 9842940060, somavijayaraj@gmail.com	Dr.-Ing. M. Duraiselvam, Professor, Department of Production Engineering & Dean (Planning and Development), National Institute of Technology, Tiruchirappalli- 620 015. Tamilnadu, India 9994373486, durai@nitt.edu

Date : 14.12.2020

Place : NIT, Trichy

Dr. M. VARATHARAJULU