

Dr. Aravind Dhandapani

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https://mkuniversity.ac.in/new/centre/usic/faculty_profile.php

**1. Personal Details**

Date of Birth & Age : 27.02.1984 & 38 years
Gender & Marital Status : Male & Married
Community : SC
Nationality : Indian
Place of Birth : Madurai

2. Educational Qualifications**2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	B.E	Anna University / Mepco Schlenk Engineering College	2005	First class with distinction	Mechanical Engineering
Post Graduate	M.E	Anna University / College of Engineering, Guindy	2007	First class	Industrial Engineering
	M.B.A	Bharatidasan University	2010	First class	Operations
Post Graduate Diploma	PGDME	Indian Maritime University	2011	First class	Marine Engineering
Post Graduate Diploma (Teacher Education)	PGDHE	IGNOU	2019	First class	Higher Education

2.2. Research

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Madurai Kamaraj	An Engineering Solution for the Problems of Shipping	23.06.2015	15.10.2016

	University	Business in India (A Case Study of an Indian Shipping Company)		
MPhil				
DSc/DLitt				

3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work
Cognizant Technology Solutions	August, 2007 to May, 2008	Programmer Analyst Trainee (COBOL)
Caravel Logistics Pvt Ltd.,	June, 2012 to June, 2012	Junior Engineer (Marine)

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Indian Maritime University	Faculty	25.08.2009	09.08.2010
		Special Visiting Faculty - Academic	03.10.2011	12.06.2012
		Special Visiting Faculty - Academic	03.08.2012	30.05.2013
2	Madurai Kamaraj University	Assistant Professor	31.05.2013	Till Date

5. Teaching

PG – M.Sc (E & I)

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	I	USI 2211C	Mathematical Methods	4
2			USI 2214C	Linear / Digital ICs Lab	9
3	2022-23	III	USI 2137E	Communication Systems & Networks	4
4	2022-23	I, III	USI 22B3S	Introduction to Basic Industrial Instrumentation & Workshop Technology	2
5	2022-23	I, III	-	Value Education	1

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level(PG/UG)

7. Creation of ICT Mediated Teaching-Learning Pedagogy

7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level(PG/UG)

7.2. E-Contents

No	Description	Organization for which it was Developed	Level(PG/UG)

7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level(PG/UG)

8. Research Specialization / Field of Research

- Industrial Engineering
- Composite Materials

9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	7	
Papers in Refereed Journals (Not mentioned above)	7	
Books Published		
Books Edited		
Contributions to Book Chapters	3	
Editor of Conference/Seminar Proceedings		
Papers Published in Conference/Seminar Proceedings	6	
Papers Presented in Conferences/Seminars	5	5
Conference/Seminar/Workshop Attended	5	
Deposits in CCDC, PDB, etc.		

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	
Total Citations (Scopus/Web of Science)	8
h-Index (Scopus/Web of Science)	2
g-Index (Scopus/Web of Science)	
i10 Index (Scopus/Web of Science)	0

11. Details of Patents

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)			

PhD (Part-time)			
MPhil Research Project (Full-time)			
MPhil Research Project (Part-time)			
MSc Projects/Dissertation	22		
MSc Internships/Summer or Winter Projects			

13. Funded Research Projects

13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project

14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed

15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Senthilkumar Krishnasamy	PSG iTech, Coimbatore, Tamilnadu, India	Research articles, review articles and contribution to book chapters
Suchart Siengchin	King Mongkut's	
Rungsima Yeetsorn	University of	
Thitinun Ungtrakul	Technology, Bangkok, Thailand	
Jyotishkumar Parameswaranpillai	Alliance University, Bengaluru, Karnataka, India	
Sikiru O Ismail	University of Hertfordshire, Hatfield, England, UK	
Senthil Muthu Kumar Thiagamani	Kalasalingam Academy of	
Rajini Nagarajan	Research and Education, Krishnankoil, Tamil Nadu, India	
Chandrasekar Muthukumar	Hindustan Institute of Technology & Science, Chennai, Tamil Nadu, India	

Ganesan Chinnachamy	Amity University, Noida, Uttar Pradesh, India	
V Ganesh Ram	Indian Maritime University, Chennai Campus, Chennai, Tamilnadu	
S. Thangalakshmi		
C.P. Balaji		
Natarajan Varagunapandiyan	King Khalid University, Abha, Saudi Arabia	

16. Countries Visited

Name of the Country	Period	Purpose

17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding

19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1.	Hindustan Institute of Technology & Science	WEECON'19		March'2019
2.	Mohamed Sathak Engineering College		ICGTEM'15	March'2015

20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor

22. Administrative Experiences

Role Played	Responsibilities	Period (from ... to)
Senate Member of Madurai Kamaraj University	University proceedings	Feb' 2014 - Feb'2017
Standing Committee Member for SC / ST Cell	SC / ST welfare	From June' 2013
Additional Responsibilities in the office of Public Relations Office	Officer i / c for University vehicles	Oct' 2013 – 2016
Warden for Mens' Hostel and Hostel Committee Member	Hostel administration	May' 2014 – 2016
Committee Member for Green and Clean Campus Committee	Green and clean environment of the campus	From June' 2014
Management Committee Member – Arulmigu Kalasalingam College of Arts and Science	Representative of Madurai Kamaraj University	2021 – 2023

23. Membership in Academic Bodies

Name of the University / Institute / College	Type of Membership	Duration / Period
Board of Studies, Subbalakshmi Lakshmi pathy College of Science	University Nominee	

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
International Association of Engineers (INENG)	International	Member (Member ID: 231588)
Indian Seafarers' Association	National	Member as Seaman (CDC No: Mum 191860)

25. Languages Known

Languages	Read	Write	Speak
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes
French	Yes	Yes	-

26. Competence in Computer Applications

27. Involvement in Extension Activities other than Academic Works

28. Any Other Relevant Information

Details of Publications

1. Books Published

-

2. Books Edited

-

3. Contribution to Book Chapters

1. Sameena Shaik, Dharma Raghu Raj Reddy, Anwar Kornipalli, Ashish Kasam, D. Aravind, Senthilkumar Krishnasamy, Chandrasekar Muthukumar, Senthil Muthu Kumar Thiagamani (March 2022), In the Book, Senthil Muthu Kumar Thiagamani, Md Enamul Hoque, Senthilkumar Krishnasamy, Chandrasekar Muthukumar, Suchart Siengchin (Eds.), Influencing effects of hybridization and addition of fillers on the viscoelastic properties of reinforced polymer-based composites, Vibration and Damping Behavior of Biocomposites, Page No. 189 – 200, (ISBN:9781003173625), CRC press, Taylor & Francis, DOI: 10.1201/9781003173625
2. Karthikeyan Subramanian, Senthilkumar Krishnasamy, Chandrasekar Muthukumar, Senthil Muthu Kumar Thiagamani and Rajini Nagarajan, Suchart Siengchin (August 2021), In the Book, V. Arumugaprabu, R. Deepak Joel Johnson, M. Uthayakumar, and P. Sivaranjana (Eds.), Tribo Performance Analysis on Polymer - Based Composites, Polymer – Based Composites, Page No. 115 – 130, (eBook ISBN: 9781003126300), CRC press, Taylor & Francis, Citations: 1
3. Aravind Dhandapani, Senthilkumar Krishnasamy, Senthil Muthu Kumar Thiagamani C. Pradeepkumar, Aravind Dhandapani, Chandrasekar Muthukumar, Suchart Siengchin (December 2020), Plastics in marine engineering, Encyclopedia of Materials: Plastics and Polymers, Materials Science and Materials Engineering (ISBN: 9780128035818), Elsevier, Citations:2, DOI: 10.1016/B978-0-12-820352-1.00058-4

4. Editor of Conference/Seminar Proceedings

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5. Research Publications

5.1. UGC-CARE Listed Journals

1. A compendious review on fatigue properties of the bio-nanocomposites, D Aravind, K Senthilkumar*, M Chandrasekar, T Senthil Muthu Kumar, C Ganesan, Jyothishkumar P, N Rajini, Suchart S, N Varagunapandiyan, Polymer Composites (SCI - Q1) Online ISSN:1548-0569, John Wiley & Sons, July 7, 2022, Impact Factor: 3.531, <https://doi.org/10.1002/pc.26859>
2. Reduction of engine emission into the environment by effective functioning of catalytic converter in proportion with concentration of pollutants, D Aravind, V Ganeshram, S Thangalakshmi*, C. P. Balaji, Specialusis Ugdymas (SCI – Q4) (Scopus) (ISSN: 1392-5369), Siauliai University, Volume 1, Issue 43, Page 3706 - 3713, July 2022, <https://www.sumc.lt/index.php/se/article/view/435>
3. Feasibility of Elastomers as an Alternate Material for Marine Applications - A compendious review on properties and opportunities, D Aravind, K Senthilkumar*, N Rajini, T Senthil Muthu Kumar, M Chandrasekar, Sikiru O Ismail, Rungsima Y, Jyothishkumar P, Suchart S, MP Indira Devi, Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment

- (SCI - Q2) (ISSN: 1475-0902, Online ISSN: 2041-3084), Sage, May 18, 2022, Impact Factor: 1.322, <https://doi.org/10.1177/14750902221095321>
4. Desirability of tribo-performance of natural based thermoset and thermoplastic composites: A concise review, D Aravind, K Senthilkumar*, Thitinun U, T Senthil Muthu Kumar, N Rajini, M Chandrasekar, C Ganesan, Applied Science and Engineering Progress (SCI – Q3) (Scopus) (ISSN: 2672 – 9156, E – ISSN: 2673 – 0421), Page 606 – 613, July 2021, Citations:2, DOI: 10.14416/j.asep.2021.07.001
 5. Evolution, Problems and Prospects of Composite Materials in Marine Applications, D Aravind, K Senthilkumar*, N Rajini, Key Engineering Materials (SCI – Q4) (Scopus), 2019 (accepted)
 6. Managing India’s Inceptive Import Requirement of LNG Through Shipping Business, D Aravind*, Journal of Emerging Technologies and Innovative Research (UGC - CARE) (ISSN: 2349-5162), Volume 6, Issue 3, Page 73 – 78, March 2019, <https://www.jetir.org/papers/JETIR1903N06.pdf>
 7. A Concise Review On The Growth of Indian Shipping Business And The Role of Indian Ports in Handling Cargo Traffic, D Aravind*, International Journal of Research and Analytical Reviews (UGC – CARE) (ISSN: 2348 – 1269), Volume 5, Issue 1, Page 143 – 149, March 2018, <https://www.ijrar.org/papers/IJRAR19D3584.pdf>

5.2. Other Refereed Journals

1. Development of pH Value Detection Sensor for Water to Detect and Automate Water Neutralization Process, D Aravind, V Ganeshram, International Journal of Research and Analytical Reviews (E-ISSN: 2348-1269, P- ISSN: 2349-5138), Volume 9, Issue 2, Page 924 – 929, June 2022, <https://www.ijrar.org/papers/IJRAR22B3319.pdf>
2. An alternate charging system for EVs using wireless technology and LabVIEW, D Aravind, M Sarathkumar, Journal of Emerging Technologies and Innovative Research (E-ISSN 2348-1269, P- ISSN 2349-5138), Volume 7, Issue 10, Page 3730 – 3733, October 2020, <http://doi.one/10.1729/Journal.24885>
3. Performance Evaluation of an Automobile Alternator, D Aravind*, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (ISSN (Print): 2320 – 3765, ISSN (Online): 2278 – 8875), Vol. 7, Issue 11, Page 3962 – 3967, November 2018, DOI: 10.15662/IJAREEIE.2018.0711004
4. Managing Evaluation for an Automobile Testing, D Aravind*, T Chellapandi, Journal of Management in Manufacturing and Services (ISSN: 2350 – 1480), International Society for Green, Sustainable Engineering and Management, Volume No. 1, Issue No. 16, Page 1 – 4, December 2014
5. Problems and Prospects of Shipping Business in India (A Case Study of an Indian Shipping Company), D Aravind*, International Journal of Scientific and Technology (UGC) (ISSN: 2277 – 1581), Volume No. 1, Issue No. 6, Page 299 – 300, December 2012, Citations: 1
6. Beneficiaries of Operation Research and Simulation, International Journal of Scientific and Technology (ISSN: 2277 – 1581), D Aravind*, International Journal of Scientific and Technology (UGC) (ISSN: 2277 – 1581), Volume No. 1, Issue No. 6, Page 295 – 298, December 2012, Citations:2
7. Quality Policy Deployment in an Electrical Limited, International Journal of Scientific and Technology (ISSN: 2277 – 1581), D Aravind*, International Journal of Scientific and Technology (UGC) (ISSN: 2277 – 1581) Volume No. 1, Issue No. 6, Page 292 – 294, December 2012

5.3. Papers Published in Conference Proceedings

1. D Aravind, H Pulikkalparambil, K Senthilkumar, MR Sanjay, M Chandrasekar, T Senthil Muthu Kumar, Suchart Siengchin, A review on emergence, viability and future of composite materials in marine sectors, *International Conference on Sugar Palm and Allied Fibre Polymer Composites (SAPC2021)*, December 2021
2. D Aravind, K Senthilkumar, T Senthilmuthukumar, N Rajini, Evolution, prospects, and predicaments of polymers in marine applications: A potential successor to traditional materials, *International Virtual Conference on Future Trends in Automotive Technology*, VIT, July 2020
3. D Aravind, K Senthilkumar, N Rajini Elastomer in marine applications: A review, *First International Virtual Conference on Advanced Materials and Manufacturing Process*, KARE, June 2020
4. D Aravind, K Senthilkumar, N Rajini Evolution, Problems and Prospects of Composite Materials in Marine Applications – A Review of Literature, *Kalasalilingam Global Conference*, December 2019
5. D Aravind, Quality Policy Deployment in an Electrical Limited, *International Seminar on Case Study Method of Teaching in Commerce / Management Education*, January, 2007
6. D Aravind, Beneficiaries of Operations Research, *International Conference on Global Business and Policy Modelling*, September, 2006

5.4. Papers Presented in Conferences / Seminars

5.4.1. International

1. D Aravind, K Senthilkumar, N Rajini, M Chandrasekar, Suchart Siengchin, Tribological study on thermoplastic based composites – A review, *International Tribology Research Symposium – 2020*, November 2020
2. D Aravind, B Vijayabhaskar, R Govindarajan, Impact of black carbon on tribological behaviors, *International Tribology Research Symposium – 2020*, November 2020
3. D Aravind, Integrating Functional Management System of Shipping Business using Engineering, *International Conference on Management Practices Beyond the Horizon*, March, 2015
4. D Aravind, Role of Shipping in Mitigating Climate Change, *ICGTEM'15*, March 2015
5. D Aravind, Engineering as a Solution for Shipping Business, *ICGTEM'15*, March 2015

5.4.2. International held within India

5.4.3. National

1. D Aravind, Passive Integration Systems, *EVATAR 2K19*, August, 2019
2. D Aravind, Global Positioning System for Marine Vessels, *EVATAR 2K19*, August, 2019
3. D Aravind, Efficient Technology for Highway Wind Energy Generation and its Application for Road Safety, *WEECON'19*, March, 2019
4. D Aravind, Sensor Development for Detection of pH of Water to Automate Water Neutralization Process, *WEECON'19*, March, 2019
5. D Aravind, Effective Control of Catalytic Converters to Reduce Engine Emission in Environment in Proportion with Concentration of Pollution, *WEECON'19*, March, 2019

5.4.4. State

5.5. Any Other Publications Not Mentioned Above

6. Conferences / Seminars / Workshops / Webinars Attended

1. National Seminar on “Role of Power Converters and Control System in Renewable Energy”, 2020
2. National Seminar on People’s Participation in Rural Development, January, 2009
3. International Seminar on Case Study Method of Teaching in Commerce / Management Education, January, 2007
4. Webinar on “Natural Fiber Composites & Use of Agrowaste as Filler”, Institute of Tropical Forestry & Forest Product, Universiti Putra Malaysia, November 2020
5. IWRAE’19 (International Workshop on Recent Advances in Electronics), March 2019

7. Details of Deposits in CCDC, PDB, etc.

No	Name of Deposit	Reference No.	Date of Deposition