



# GRACE COLLEGE OF ENGINEERING

**MULLAKKADU, THOOTHUKUDI - 628005**

## FACULTY PROFILE

**Name** : Dr M D Mohan Gift

**Designation & Department** : Professor / Mech

**Gender** : Male

**DOB** : 31-12-1975

**DOJ** : 03-06-2024

**Father's Name** : G Gift Jayakumar

**E-mail id** : mohangift@grace.edu.in



## EDUCATIONAL OUALIFICATION:

Degree	Course	Month & Year of Passing	Name of the School/College & Board/University	Regular/ Part Time	% of Marks	Class Obtained
BE	Mech	May 1997	Arulmigu Kalasalingam College of Engineering/ Madurai Kamaaj University	Regular	69.4	First
ME	Engineering Design	December 2000	Kongu Engineering College	Regular	74.5	First
Ph.D	Fracture Mechanics	October 2017	Kumaraguru College of Technology / Anna University	Part-time	NA	NA

**EXPERIENCE:**

Name of the College	Designation	Duration	
		From	To
Karunya University	Lecturer Sr Lecturer	01/01/1998 01/01/2001	31/05/1999 31/10/2007
Kings Engineering College	Assistant Professor	06/11/2007	31/06/2011
Panimalar Engineering College	Associate Professor Professor	01/07/2011 01/07/2018	31/06/2018 01/09/2023
Grace College of Engineering	Professor	03/06/2024	-Till date-
<b>Total Teaching Experience</b>			<b>26 years 1 month</b>

**ADDITIONAL QUALIFICATION IF ANY :**

i. GATE Score (In case of B.E. / B.Tech.): - NA

ii. NET / SLET - NA

Title of Ph.D. Thesis \*: - Investigation of decisive parameters in the crackpropagation analysis of an Adhesive joint.

Faculty in which Ph.D. was awarded: - Mechanical

**MEMBERSHIP IN PROFESSIONAL BODIES: Nil**

Professional Body	Type of Membership	Membership Number
Global Society for Technical Education	Annual	F-1274

**PAPERS PRESENTED IN CONFERENCE/SYMPOSIUM:**

Date	Venue	Paper Title	ISBN/ISSN if any	Conference Title
04 05 2022	Panimalar Engineering College	A review of polyurethane adhesives in the characterization of bonding.	<a href="https://doi.org/10.1063/5.0152431">https://doi.org/10.1063/5.0152431</a> AIP conference proceedings	PECMACT 2022
04 05 2022	Panimalar Engineering College	A comprehensive review of the significance of auditory emission methods in debonding analysis.	<a href="https://doi.org/10.1063/5.0152432">https://doi.org/10.1063/5.0152432</a> AIP conference proceedings	PECMACT 2022

10 01 2023	SSN Engineering college	Experimental analysis of the combined effect of thermal barrier coating material and the nanoparticle augmented fuel usage on CI engine characteristics	Materials Today: Proceedings 2023, 72, pp. 2351–2357	International Conference on Functional Materials for NextGen Applications – ICFMNA`23
28 04 2022	Ramakrishnan College of Technology, Trichy, Tamil Nadu,	Determination of prohibition mechanism of cationic polymer / SiO <sub>2</sub> composite as inhibitor in water using drilling fluid	Materials Today: Proceedings, 2022, 69, pp. 1080—1086	International Conference on Newer Engineering Concepts and Technology (ICONNECT 2022)
23 01 2022	VIT AP University, Amaravati,	Study on influence of nano-filler content on the performance of natural fibre reinforced epoxy composites	Materials Today: Proceedings, 2022, 56, pp. 1562—1566 <a href="https://doi.org/10.1016/j.matpr.2022.01.304">https://doi.org/10.1016/j.matpr.2022.01.304</a>	First International Conference on Advances in Mechanical Engineering and Material Science
05 04 2022	Dr NGP Institute of Technology, Coimbatore	Comparative investigation and optimization of turning process parameters using Taguchi technique in turning of Inconel 718	Materials Today: Proceedings, 2022, 62, pp. 2021—2025 <a href="https://doi.org/10.1016/j.matpr.2022.02.397">https://doi.org/10.1016/j.matpr.2022.02.397</a>	International Conference on Design, Manufacturing and Materials Engineering
10 02 2022	CMR institute of Technology, Bangalore.	Study on the impact of Nano-reinforcements on the fatigue strength of adhesive joints	Materials Today: Proceedings, 2022, 62, pp. S177—S181 <a href="https://doi.org/10.1016/j.matpr.2022.02.593">https://doi.org/10.1016/j.matpr.2022.02.593</a>	International Conference on Emerging Trends in Material Science and Technology-2022

### **PAPERS PUBLISHED IN JOURNALS :**

<b>Title of the Paper</b>	<b>Authors</b>	<b>Name of the Journal</b>	<b>Volume Number &amp; Page Number</b>	<b>ISBN/ISSN if any</b>	<b>Year of Publication</b>
Characterization of silane-treated wheat husk biomass Si <sub>3</sub> N <sub>4</sub> and castor stem sheath fibre-epoxy composite	<b>Mohan Gift, M.D.,</b> Ratna Kandavalli, S., Rajiv Kumar, N., Mageswari, M.	Biomass Conversion and Biorefinery.	<a href="https://doi.org/10.1016/j.matpr.2022.02.593">https://doi.org/10.1016/j.matpr.2022.02.593</a>	21906815	2024

Optimizing Hybrid Active–Passive Thermal Management of Prismatic Li-Ion Batteries Using Phase Change Materials and Porous-Filled Mini-Channels	Venkatesh, R.J., Bhemuni, V.P., Chinnam, D.S.P., <b>Mohan Gift, M.D.</b>	Energy Storage	<a href="https://doi.org/10.1002/est2.70060">https://doi.org/10.1002/est2.70060</a>	25784862	2024
Load bearing investigations on lightweight rubber seed husk cellulose – ABS 3D printed core and sun hemp FRP composite skin building material	Mahendran G, <b>Mohan Gift M D</b> , Kakaravada I, Raja VL	Macro molecular research - Springer	<a href="https://link.springer.com/article/10.1007/s13233-024-00277-3">https://link.springer.com/article/10.1007/s13233-024-00277-3</a>	15985032	2024
Investigation of usage of neat palm biodiesel in CI engine using cerium oxide nanoparticle addition to the fuel	Thiruselvam, K., <b>Mohan Gift, M.D.</b> , Saravanan, R., & Subramonian, N	International journal of Ambient Energy	<a href="https://doi.org/10.1080/01430750.2023.2175033">https://doi.org/10.1080/01430750.2023.2175033</a>  44(1), 1396–1405	21628246	2023
Green Catalytic Pyrolysis: An Eco-Friendly Route for the Production of Fuels and Chemicals by Blending Oil Industry Wastes and Waste Furniture Wood	<b>Mohan Gift, M. D.</b> , Verma, S., Prasad, K., Thao, K., & Lalvani, J. J.	Journal of Nanomaterials - Hindawi	<a href="https://doi.org/10.1155/2022/9381646">https://doi.org/10.1155/2022/9381646</a>	-	2022

Mechanical Behaviour of Alkali-Treated Fabric-Reinforced Polymer Matrix Composite	<b>Mohan Gift, M. D.,</b> Mantri, S., Raviteja, S., Khan, S. M. A., & Christopher, D.	Advances in Polymer Technology Hindawi	<a href="https://doi.org/10.1155/2022/1833955">https://doi.org/10.1155/2022/1833955</a>	-	2022
Study of numerous resins used in polymer matrix composite materials.	Ramakrishnan, T., <b>Mohan Gift, M. D.,</b> Chithradevi, T., Selvakumar, P., & Haeligiorgis, S. M.	Advances in Material Science and Engineering,	<a href="https://doi.org/10.1155/2022/1088926">https://doi.org/10.1155/2022/1088926</a>	-	2022
Additive manufacturing and 3D printing innovations: Revolutionizing industry 5.0	<b>Gift, M.D.M.,</b> Senthil, T.S., Hasan, D.S... Jayaseelan, P., Boopathi, S.	Technological Advancements in Data Processing for Next Generation Intelligent Systems, 2024, pp. 255—287 IGI global book chapter	DOI: 10.4018/979-8-3693-0968-1.ch010	.	2023
Biomining method to extract metal components using computer-printed circuit board e-waste	Hanumanthakari, S., <b>Gift, M.D.M.,</b> Kanimozhi, K.V., ... Bamane, K.D., Boopathi, S	Handbook of Research on Safe Disposal Methods of Municipal Solid Wastes for a Sustainable Environment, 2023, pp. 123—141. IGI global book chapter	DOI: 10.4018/9781668481172-8/978-1-6684-8117-2	9781668481172	2023
Performance and Emission Characteristics of Diesel Engine Using Thermal Barrier Coated Cylinder Liner and Piston	Thiruselvam, K., Gift, M.	International Research journal of Multidisciplinary Technovation, 2019, 1(1), pp. 1—10	DOI: <a href="https://doi.org/10.34256/irjmt1911">10.34256/irjmt1911</a>	2582-1040	2019
Analysis of crack propagation in an adhesive joint	Mohan Gift, M.D., Selvakumar, J., John Alexis, S.	Journal of Mechanical Engineering,	13(1), pp. I—12	2249-0531	2016
Analysis of crack propagation in an adhesive joint	Gift, M.D., Selvakumar, J., Alexis, S.	International journal of Chemical Sciences,	14, pp. 485—496	2523-2843	2016

Fatigue curve parameters description of AISI 1141 Microalloyed Steel using Gatts equation, Exponential & Hyperbolic function	Selvokumar, J., Mohongift, M.D., Johnolexis, S.	Carbon - Science and Technology,	, 8(4), pp. 20—27	0974-0546	2016
Experimental investigation on fatigue curve parameters of 6061 T6 aluminium alloy	Selvokumar, J., Mohongift, M.D., Johnolexis, S.	International journal of Applied Engineering Research,	(3), pp. 2108—2111	0973-9769	2016
Determination of decisive parameters in the crack propagation analysis of an adhesive joint	John Alexis, S., Selva Kumar, P., Mohan Gift, M.D.	Indian journal of Science and Technology	8(35)	09794-5645	2015
Fracture studies of an adhesive joint involving composition alteration	Gift, M.D.M., Selva Kumar, J., Alexis, S.J.	Journal of Chemical and Pharmaceutical Sciences	pp. 269—273	2349-8552	2015

### **WORKSHOPS & FDP ATTENDED :**

<b>FDP/Workshop Title</b>	<b>Venue</b>	<b>Date</b>	<b>Duration</b>
CE 8403 - Applied Hydraulic Engineering	Panimalar Engineering College	19/11/2018	1 week
ME 6503 - Design of Machine Elements	Panimalar Engineering College	22/05/17 to 30/05/17.	2 weeks
ME 6404 – Thermal Engineering	Panimalar Engineering College	04/01/16 to 11/01/16.	1 week
Advances and Research in Mechanical Engineering	Dept of Mechanical Engineering / K.S. School of Engineering And Management, Bengaluru	20 07 2020 - 24 07 2020.	5 days
modern materials and industrial automation	Dept of Mechanical Engineering / Sri Sairam Institute of Tech, Chennai	20 06 2020 - 25 06 2020	5 days
Role of Nuclear Technology Towards Stronger India	Dept of Mechanical Engineering / Panimalar Engineering College, Chennai	15 -06-2020	1 day
Adoption of BS-VI and approaching Electric Vehicles	Dept of Mechanical Engineering / Panimalar Engineering College, Chennai	27 -06-2020.	1 day

thriving E-Mobility			
Webinar on Taguchi Techniques	Dept of Mechanical Engineering / Jayaraj Annapackiam CSI Engg College, Nazareth	11-07-2020	1 day

### BOOKS AUTHORED:

Title of the Book	Authors	Publishers	ISBN/ISSN if any	Year of Publication
Automotive Engineering	S. Thiru, Singamsetty Ravi Teja, M. D. Mohan Gift, C. Anbu	Scientific International publishing house,	ISBN no: 978-93-5757-335-1.	2022

### Publications:

In Journals :

National : 8

International : 9

In Conferences :

National : --2

International : -- 5

**Any other relevant information:** Nil

### DECLARATION

I solemnly, hereby declare that the above-mentioned information is true to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.



**Signature of the Faculty**