


FACULTY PROFILE

Name of Teaching Staff / RMK ID	 Dr.S.D.Sekar / T0639		
Designation	ASSOCIATE PROFESSOR		
Department	MECHANICAL ENGINEERING		
Date of Joining the Institution	27.05.2011		
Qualifications	B.E	M.E(I.C.Engineering)	Ph.D
Total Experience	Overall : 20Yrs 4 Months		in RMK : 11Yrs 5 Months
Papers Published in Journal	Overall : 19		After Joining RMK : 19
List of Papers Published	<ol style="list-style-type: none"> 1. J. Jeevamalar, S. Mohamed Abbas, S. Bharani Kumar, G. Sivakkumar, S. D. Sekar, C. M. Meenakshi & G. Suresh (2022) "Influence of Nanoclay Dispersion on Mechanical and Vibration Properties of E-Glass Fiber-Reinforced IPN Composites", Recent Advances in Materials and Modern Manufacturing, 255-263 2. S.D. Sekar, S. Sekar, T.N. Valarmathi. M. Mudhu Krishnan, A Godwin Antony (2022) "Mathematical Modelling of thin layer drying characteristics and proximate analysis of turkey berry (Solanum torvum)", Thermal Science, https://doi.org/10.2298/TSCI200312075S [IF = 1.57, Anna University Listed Journal] 3. Kumar, S. Bharani, S. D. Sekar, T. Mothilal, G. Sivakkumar, R. Lavanya, C. M. Meenakshi, and S. Manivannan (2021) "Experimental investigation on physical properties of banana/E-glass fiber reinforced hybrid interpenetrating polymer network composites." Materials Today: Proceedings 45 (2021): 5029-5033 4. Kumar, S. Bharani, S. D. Sekar, G. Sivakumar, J. Srinivas, R. Lavanya, and G. Suresh (2021) "Modern concepts and application of soft robotics in 4D printing." In Journal of Physics: Conference Series, vol. 2054, no. 1, p. 012056. IOP Publishing, 2021. 		

5. **Sekar Sivakumar Dana**, Nainar Nithin Srinivas Sai , Kari Venkata Krishna Kumar, Deepak G **(2021)** "Mechanical Behavior of Hybrid Composites Moulding" International Journal of Mechanical Engineering, vol 06, 1551-1556.
6. Sivakumar G, Karthikeyan S, Jayachandran G, Mageshwaran G, **Sekar S D (2021)** "Vehicle Overload Management System" Pensee Journal, vol 51, 89-93.
7. **Sekar Sivakumar Dana**, Jothikrishnan Ayadurai Solalalagan, Kirubanandhan, Krishna Kumar Karunanidhi **(2021)** "Automated Waste Disposal system using Sludge Vacuum Pump" International Journal of Mechanical Engineering, vol 06, 1531-1534.
8. Subramani, Sekar, **Dana Sekar Sivakumar**, Natesan Valarmathi Thirumalai, and Mary Lionus Leo George **(2020)** "Energy and exergy analysis of greenhouse drying of ivy gourd and turkey berry." Thermal Science 24, no. 1 Part B: 645-656. **[IF = 1.57, Anna University Listed Journal]**.
9. **S.D.Sekar** , S.Sekar , K.Partheeban , T.N.Valarmathi **(2020)** "Recent Developments in Renewable Solar Energy based drying Systems: A Review" Test Engineering and Management, vol 82, pp: 14907 – 14915.
10. **S.D.Sekar** , S.Sekar , T.N.Valarmathi , S.Bharanikumar **(2020)** "Reduction Of Nox In DI Diesel Engine Using Metal Salt Solution" Pensee Journal, vol 50, 1663-1667.
11. **S.D. Sekar**, B. Sarath kumar, N. Sherin kumar, S. Vijaya sarathy **(2019)** "Design And Analysis Of Leaf Spring Suspension System Using High Carbon Steel And Aluminum Six Series Alloys" International Research Journal of Engineering and Technology, ISSN: 2395-0056 Volume: 06 Issue: 04.
12. G Sivakkumar, **S D Sekar**, CG Krishna, NL Reddy **(2019)** "Fabrication And Analysis Of Composite Based Industrial Safety Helmet" International Research Journal of Engineering and Technology, ISSN: 2395-0056 Volume: 06 Issue: 05
13. Valarmathi, T. N., Sekar, S., Purusothaman, M., Saravanan, J., Balan, K. N., **Sekar, S. D.**, & Mothilal **(2018)** " Design and thermal analysis of coated and uncoated exhaust manifold". International Journal of Ambient Energy, vol 41, no 2, 157-160.

	<p>14. Kumar R, S., M, T., R, G., Srinivasan, , V, R., Manuel D, J. & S.D. Sekar, (2018). Investigation on the Effect of Tio2 Nanoparticle Additives on the Properties of 10w-40 Engine Oil. International Journal of Mechanical and Production Engineering Research and Development, 8(4):1187–1196. doi: 10.24247/IJMPERDAUG2018122</p> <p>15. S.D. Sekar, S. Sekar, T.N. Valarmath (2018) “Performance Improvement of a Passive Greenhouse dryer for drying Turkey berry’ Taga Journal, Vol. 14, pp. 1932- 1939. [IF=4.46, Anna University Listed journal]</p> <p>16. T.N. Valarmathi1 , S.Sekar , M. Purushothaman , S.D. Sekar , MaddelaRamaSharath Reddy , Kancham Reddy Naveen Kumar Reddy (2017) “Recent developments in drying of food products” Frontiers in Automobile and Mechanical Engineering, 197, 1-10.</p> <p>17. S.D.Sekar , Dr S.Sekar , Dr T.N.Valarmathi , Dr T.Mothilal (2017) “Experimental Analysis on DieselEnginefueled with Nerium biodiesel oil and Diesel” American Journal of Engineering Research (AJER), Volume-6, Issue-12, pp-29-34.</p> <p>18. Valarmathi, T. N., S. Sekar, S. D. Sekar, A. Aditya, R. Cawin, and J. Kishore Kumar (2015) "Recent developments in solar energy-based absorption cooling systems." Progress in Industrial Ecology, an International Journal 9, no. 2, 135-143.</p> <p>19. Partheeban K, Sekar S D, Sekar Saravanan (2015) “Optimization and Modelling Techniques of Various Dryer- A Review” Vol. 10 No.50, 861-873.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 03	After Joining RMK : 03
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 40
Books Published :	Count : 02	
	<ol style="list-style-type: none"> 1. Engineering Graphics – Vinayaga Publications. 2. Basic Civil and Mechanical Engineering – Vinayaga Publications 	
Patents	Published Count : 04	Granted Count :-
	List : <ol style="list-style-type: none"> 1. Preliminary Cooling of Moulding sand by Pre cooling setup 2. Low-Cost Fatigue Test Rig 	

	<p>3. Method For Creating Cover Blocks For Reinforced Steel Insertion Using Smart Materials (Scrap Plastics And Fly Ashes)</p> <p>4. Soil Moisture Monitoring System Using Arduino Uno</p>
Professional Memberships	Count : 03
	List : 1.MISTE 2.SDWIC 3.IAENG
Consultancy Projects Completed	Count : 01 TREND Instrumentation and Automation Pvt Ltd- Cable Route Marker fabrication and supply with one coat of Red oxide paint.
Awards Received	Count :-
	List :
Research grants Received	-
Orchid Link / ID	ID : 0000-0002-2611-6779
Google Scholar Link / ID	https://scholar.google.com/citations?hl=en&user=3QYk4hEAAAAJ ID: 3QYk4hEAAAAJ
Vidwan Link / ID	ID : 305239
Research Gate Link / ID	https://www.researchgate.net/profile/Sd-Sekar
Scopus Link / ID	ID : 57216437976