

Name	Dr. Aldin Justin Sundararaj				Designation	
Date of Joining	03/05/2010				Assistant Professor	
Research Areas	Primary: Ignition, energetic propellants, combustion, shock waves, detonation and heat transfer. Secondary : Drone for agriculture				Email : aldinjustin@karunya.edu aldinjustin@gmail.com Contact : 9047653317	
Education	UG	Mechanical Engineering	Dr. Babasaheb Ambedkar Marathwada University		2007	
	PG	Engineering Design	Karunya University		2010	
	PhD	Propulsion	Karunya Institute of Technology and Sciences		2018	
Total Experience (Years)	Teaching		Industry		Research	
	12		01		12	
Area of Specialization	Propulsion Shock wave					
Subjects Teaching	Under Graduate			Post Graduate		
	<ul style="list-style-type: none"> ❖ Aircraft Propulsion ❖ Rocket Propulsion ❖ Cryogenic Propulsion ❖ Aerospace Propulsion 			<ul style="list-style-type: none"> ❖ Advanced Propulsion Technology 		
No. of Papers Published	Scopus	12	Web of Science	5	UGC / Others	3
	International : 13 National : 07		No. of FDPs attended 05		No. of Guest Lectures Delivered 06	
Patents	Deflagration to detonation supersonic igniter, 2019 Indian Patent No 201941026005.					
Research Guidance	Ph.D. : 02		PG Level : 04		UG Level : 50+	
Grants fetched from government organization	Defence Research Development Laboratory, DRDL		Investigation of ignition delay of hydrocarbon fuel samples		INR 9,88,250/-	
	Aeronautics Research & Development Board, DRDO		Investigation of ignition delay of Isrosene using shock tube as a tool		INR 9,28,000/-	
	BrahMos Aerospace, VSSC, LPSC, IPRC, ISRO HQ, DRDL, AR&DB		4 th National Symposium on Shock Waves		INR 3,52,994/-	
	Science and Engineering Research Board, SERB		Attended a short term course on "Atomization and Spray" TU Darmstadt, Germany		INR 1,27,039/-	
	Tamil Nadu State Council for Science and Technology		Experimental investigation to study the effect of blockage ratio and length/diameter ratio on a deflagration flame tube		INR 7500/-	
Professional Memberships	<ul style="list-style-type: none"> ❖ Institute of Engineers- India M-1612705 ❖ Life member of Society of Shock Wave Research ❖ Life member of Combustion Institute –India LMC-1313 ❖ Life member of Indian Cryogenic Council–India LM-843 					

Awards / Honours	<ol style="list-style-type: none"> 1. Science and Engineering Research Board Travel grant – Government of India to attend a short term course on “Atomization and Spray”, Germany- Feb -2020 2. India – Israel fellowship - Karunya Institute of Technology and Sciences, Jan- 2020 3. Young Achiever Award – Institution of Engineers-India in the year 2019 4. Young Engineer Award – Institution of Engineers-India in the year 2018 5. Best Poster Award - Karunya University in the year 2017 6. Achievers Award - Karunya University in the year 2016 7. Gold Medal for M-Tech - Karunya University in the year 2010
Consultancy work	❖ Defence Research Development Laboratory, DRDO
Other Responsibilities	Coordinator for <ol style="list-style-type: none"> 1. IQAC: Internal Quality Assurance cell 2. NAAC :National Assessment and Accreditation Council 3. NBA : National Board Accreditation 4. ARIIA: Atal ranking of Institution on Innovation Achievement 5. NIRF : National Institution Ranking Framework 6. AQAR : Annual Quality Assurance Report 7. QS-I Gauge 8. In-charge for Propulsion and High Enthalpy lab 9. Joint Chief Warden – Gents Residency 10. Drone Technology for Agriculture Mission-Leader 11. Association / Mindkraft 12. Alumni and Parents Interaction 13. Department Reports