

# FACULTY PROFILE

ANDREWS. A

## Personal Details

**Salutation:** Mr.

**Instructor Name:** **Andrews. A**

**Designation:** **Assistant Professor**

**Department:** MECHANICAL ENGINEERING -  
NEC

**Date of Joining in  
NEC:** 02-06-2016

**Date of Joining in  
Present Post:** 02-06-2016

**Mobile Number:** 8220353153

**College Id:** MECT526

**College Email Id:** andrewsnztmech@nec.edu.in

**Unique Staff Id:** 1-3187979367



## Address for Communication

**Address Line 1:** 71 A - II Kailasapuram Street      **Pincode:** 628617

**City:** Nazareth      **District:** Thoothukudi

**State:** Tamilnadu

## Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	B.E	Mechanical Engineering	Kings Engineering College	Anna University, Chennai	2014
2	M.E	Engineering Design	Easwari Engineering College	Anna University, Chennai	2016

## Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	Total Experience
1	National Engineering College	Assistant Professor	02-06-2016	6 years

## FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Instituion or Organization	From	To
1	Comprehensive Materials testing and Analysis	National Workshop	Anna University, Chennai	05-10-2013	05-10-2013
2	High speed and high performance machining	National Seminar	VIT, Chennai	11-10-2014	11-10-2014
3	Mechanical Vibration	Short Term Training Program	Anna University, Chennai	21-10-2016	22-10-2016
4	Instructional Design and Delivery System	Faculty Development Program	NITTTTR, Chennai	22-05-2017	27-05-2017
5	Technology enabled teaching learning process	Faculty Development Program	NITTTTR, Chennai	28-05-2017	30-05-2017
6	Empowering Teachers in Life skills education	Faculty Development Program	NIT, Trichy	06-11-2017	10-11-2017
7		Industrial Know-How Program	TryCAE Industrial Engineering, Trichy	11-11-2017	08-11-2017
8	Vibration Condition Monitoring	National Workshop	Hindustan Institute of Technology, Chennai	10-01-2018	11-01-2018
9	Foundation Program in ICT for Education	Faculty Development Program	IIT, Mumbai	08-03-2018	12-04-2018
10	Pedagogy for Online and Blended Teaching Learning Process	Faculty Development Program	IIT, Mumbai	03-05-2018	30-05-2018
11		Industrial Know-How Program	Art Industrial School, Nazareth	23-08-2018	25-08-2018
12	Design and Analysis of Mechanical Systems	National Workshop	NIT, Trichy	10-06-2019	15-06-2019
13		Industrial Know-How Program	TVS Supply Chain Solutions, Chennai	09-12-2019	13-12-2019
14		Industrial Know-How Program	TryCAE Industrial Engineering, Trichy	01-04-2020	14-04-2020
15	MATLAB for All	Short Term Training Program	SIR M Visvesvaraya Institue of Technology, Bangalore	04-06-2020	08-06-2020
16	Introduction to Soft Computing	Faculty Development Program	Rajalakshmi Engineering College, Chennai	08-06-2020	12-06-2020
17	Basics of Noise and Vibration	National Workshop	VIT, Chennai	17-06-2020	19-06-2020
18	Emerging Simulation Trends	International Workshop	SRM Institute of Science and Technology, Chennai	29-07-2020	30-07-2020
19	Virtual Labs	Faculty Development Program	NITK, Suratkal	10-08-2020	04-08-2020
20	MATLAB onramp	Training	MathWorks	08-06-2020	08-06-2020

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
21	Machine Learning Onramp	Training	MathWorks	11-06-2020	11-06-2020
22	MATLAB Fundamentals	Training	MathWorks	11-06-2020	11-06-2020
23	Machine Learning with MATLAB	Training	MathWorks	14-12-2020	14-12-2020
24	Deep Learning with MATLAB	Training	MathWorks	15-12-2020	16-12-2020
25	Sheet Metal Design using Solidworks	Faculty Development Program	ICT Academy	25-01-2021	30-01-2021
26	Machine Learning and Deep Learning	Faculty Development Program	NIT, Warangal	30-03-2021	03-04-2021
27	Applications of Artificial Intelligence in Mechanical Engineering	Faculty Development Program	K. RAMAKRISHNAN COLLEGE OF ENGINEERING (ATAL)	02-08-2021	06-08-2021
28	Principles of Vibration Control	Faculty Development Program	NPTEL	01-09-2021	31-10-2021
29	Foundations of Machine Learning	Faculty Development Program	Kongu Engineering College	21-10-2021	28-10-2021
30	IOT Based Condition Monitoring	Faculty Development Program	Veer mata Jijabai Technological Institute VJTI Mumbai (ATAL)	06-12-2021	10-12-2021
31	Machine Learning Applications in Mechanical Engineering	Faculty Development Program	Acropolis Institute of Technology and Research (ATAL)	13-12-2021	17-12-2021

## International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors
1	Emerging Research and Advances in Mechanical Sciences (ERAMS – 16)	National Conference Presentation	Velammal engineering college, Chennai	Non-linear feature extraction from Zhao-Atlas-Marks transforms in non-stationary gear fault diagnosis	Andrews A and Krishnakumari
2	Fifth International Conference on Recent Trends in Mechanical, Instrumentation and Thermal Engineering – MIT 2017	International Conference Presentation	Association of mechanical and Aeronautical Engineers – A division of IDES Cochin	Extraction of Hu-Descriptors from Short-Term-Fourier Transforms in Non-Stationary Gear Fault Diagnosis	Andrews A, Pravin S and Krishnakumari A
3	International Conference on Sustainable Materials, Design and Applications 2018 (ICSMDA 2018)	International Conference Presentation	Kongu Engineering College, Erode-638 060, Tamil Nadu	Effect of Material Properties on Isolator Selection for a Pump – Numerical Analysis	A.Andrews, M.Ahamed yaseer, P.Y.Ajin, R.Ajith, S.Arunmuthaiyapandian

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors
4	International Conference on Research Advancements & Challenges in Engineering Services – ICSPACE 20	International Conference Presentation	Velammal engineering college, Chennai	Selection of Inactive Vibration for Pump	Ahmad, Ari Sangar T, Mohamed Hamith T M, Andrews A, Michael Thomas Rex F.
5	International Conference of Advance Research and Innovation – ICARI 2021	International Conference Presentation	MIET Engineering College, Meerut, India	Fault Diagnosis of Gearbox Based on Empirical Mode Decomposition and Artificial Neural Network	V. Balaji, B. Parthiban, Saravanan.S.C, A. Andrews, K. Manisekar
6	International Conference on processing and characterization of materials	International Conference Presentation	SSN college of Engineering, Chennai	An Integrated Approach for Gear Fault Diagnosis using VMD and ANN	Venkatesh S, Andrews A * , Manisekar K, Yogesh S G, Dayalan P, Santhru S

## Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Application of Zhao-Atlas-Marks transforms in non-stationary bearing fault diagnosis	Procedia Engineering	2016	A Krishnakumari, M Saravanan, A Andrews, G Venkatesan, S Jain	<a href="https://doi.org/10.1016/j.proeng.2016.05.136">https://doi.org/10.1016/j.proeng.2016.05.136</a>
2	Intelligent Fixture Layout Design for End Milling Process Using Artificial Neural Networks	Lecture Notes in Mechanical Engineering	2020	FMT Rex, D Ravindran, A Andrews, L Nagarajan	<a href="https://doi.org/10.1007/978-981-15-3631-1_20">https://doi.org/10.1007/978-981-15-3631-1_20</a>
3	A hybrid approach for fault diagnosis of spur gears using Hu invariant moments and artificial neural networks	Metrology and Measurement Systems	2020	F Rex, A Andrews, A Krishnakumari, P Hariharasakthisudhan	10.24425/mms.2020.134587
4	Design, Optimization and Analysis of Baja Suspension System Using Full Factorial Approach	Springer Proceedings in Materials	2020	VAG Ram, TS Easwar, A Vishal, A Andrews, FMT Rex	<a href="https://doi.org/10.1007/978-981-15-6267-9_3">https://doi.org/10.1007/978-981-15-6267-9_3</a>
5	Numerical Investigation of Swirl Flow on Heat Transfer Enhancement in a Stepped Pipe	Recent Advances in Manufacturing, Automation, Design and Energy Technologies	2021	B Prince Abraham, F Michael Thomas Rex, P Samuel Ponraj, R Jayavenkatesh, A Andrews	<a href="https://doi.org/10.1007/978-981-16-4222-7_98">https://doi.org/10.1007/978-981-16-4222-7_98</a>

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
6	Optimization of flexible fixture layout to improve form quality using parametric finite element model and mixed discrete-integer genetic algorithm	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	F Michael Thomas Rex, P Hariharasakthisudhan, A Andrews, B Prince Abraham	<a href="https://doi.org/10.1177/09544062211034191">https://doi.org/10.1177/09544062211034191</a>

## Product Development Activities

Sr	Product Title	From	Funds Received	IPR Status
1	Semi-automatic ice cream cone crimping machine	04-01-2022	₹ 2,50,000.00	Filed

## Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership
1	Institution of Engineers (India)	Associate Member
2	Society for Manufacturing Engineers	Administrative Member

## Consultancy Work Details

Sr	Consultancy Work Detail	Name of Industry / Agency	Amount	From	To
1	Design of wiper mechanism	CM EnviroSystems, Bangalore	₹ 50,000.00	01-06-2017	20-06-2018
2	Preventive Maintenance	K.R. Mills, Kovilpatti	₹ 1,00,000.00	29-01-2022	27-12-2021

## Instructor Log

Sr	Academic Year	Program	Course
1	2016-17	B.E (MECHANICAL ENGINEERING)	13ME52 - Design of Machine Elements