



# ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY  
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)  
Rajampet, Annamayya District, A.P – 516126, INDIA

## Faculty Profile

### Basic Information:

NAME : **G Eswar Balachandar**  
DESIGNATION : **Assistant Professor**  
DEPARTMENT : **Mechanical Engineering**  
DATE OF BIRTH : **01-10-1985**  
DATE OF JOINING : **11-01-2021**  
EMAIL ID : [geb@aitsrajampet.ac.in](mailto:geb@aitsrajampet.ac.in)  
EMPLOYEE ID : AITS031040



### Academic Profile:

Qualification	Name of the Board/University	YEAR
M.Tech (CAD/CAM)	JNTUA, Anantapuramu	2011
B.Tech	JNTUA, Anantapuramu	2009
DME	SBTET, Hyderabad	2006

### Research Details:

1. Areas of Specialization	:	CAD/CAM, INDUSTRIAL ENGINEERING
2. No. of Publications	:	15
3. Awards Received	:	---
4. Research Guidance		
	No. of PhD Guided:	--
	No. of M.Tech. Guided:	--
	No. of B.Tech. Guided:	10
5. Details of Professional Membership:		<b>IAENG</b> , <b>NITTSD</b> (National Institute For Technical Training & Skill Development), <b>IRE</b> (Institute of Research Engineers and Doctors)
6. Subjects Taught	:	Engineering Drawing, Engineering materials, Manufacturing Technology, Basic Mechanical Engineering, Machine Tools, Automobile Engineering, Energy Systems, Instrumentation and control systems, CAD/CAM, Industrial Engineering, Rapid Prototyping, Management Science, UHV-II.



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## Publication Details:

Title	Publisher	Published Year
1. Experimental Investigations on Exhaust Emissions in Two Stroke Spark Ignition Engine by Using Bi Metallic Piston with Catalytic Converters and Alcohol Blends	Research Journal of Engg. & Tech	2016
2. Fuzzy Grey Relational Analysis for the Identification of Optimum Influencing Cutting Parameters in Turning	International Journal of Research	2017
3. Static and Harmonic Analysis of Winch Shaft using FEM	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020
4. A Research on Dynamic Facility Layout Problems	International Journal of Recent Technology and Engineering (IJRTE)	2020
5. Performance analysis of HHO gas addition on single cylinder four stroke S.I Engine	Journal of Xidian University	2020
6. Redesign of Facility Layout for Efficiency Improvement and Cost Reduction.	Journal of Critical Reviews	2020
7. Multi Response Optimization of Machining Parameters for Drilling of Aluminium 2219 Alloy Using Taguchi and Grey Relation Analysis,	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2020
8. Control of exhaust emissions using piston coating on two-stroke SI engines with gasoline blends.	Journal of Engineering Sciences,	2021
9. Impact of Microalgal biodiesel characteristics on exhaust particle emissions and oxidative potential in diesel engines	International Journal of Food and Nutritional sciences (IJFANS)	2022
10. Fabrication of Solar inverter for household applications	International Journal of Food and Nutritional sciences (IJFANS)	2022
11. Analysis of thin film coating by Ni-Cr in arc welding of mild steel	International Journal of Food and Nutritional sciences (IJFANS)	2022
12. Minimization of Total cost in CMS design with production cost subcontracting cost, and Machine cost using PSO	Journal of Harbin Engineering University (JHEU)	2023
13. Mathematical Model for Multi-Objective Optimization of Facility Allocation in Flexible Manufacturing Systems with Collaborative Robots	International Research Journal of Multidisciplinary Scope (IRJMS),	2024



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14. Experimental study and optimization of machining parameters in milling process of inconel-718.	ShodhKosh: Journal of Visual and Performing Arts	2024
15. Revelation of the Antifertility and Antispermatogenic Activity of newly synthesized thioisatin based heterocyclic compounds	Cuestiones de fisioterapia	2025

## Patent Details:

Title of Patent	Submitted/Published/Awarded
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