



# 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 Antispermatogetic Activity of newly synthesized thioisatin based heterocyclic compounds | Cuestiones de fisioterapia                       | 2025 |

## Patent Details:

| Title of Patent | Submitted/Published/Awarded |
|-----------------|-----------------------------|
| --              | --                          |