

B. Purna Chandra Sekhar B. Tech, M. Tech, (Ph.D.)

Assistant Professor

Department of Mechanical engineering

Dr. YSR ANU College of Engineering & Technology

Acharya Nagarjuna University

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Academic Qualifications:

Ph.D–Mechanical Engineering, “**Pursuing**”, Acharya Nagarjuna University.

M. Tech - Mechanical Engineering, First Class & Distinction (79%), R.V.R & J.C College of Engineering, Guntur, India, 2005-2007.

B.Tech - Mechanical Engineering (Specialization with I&P.E), First Class (68%), R.V.R & J.C College of Engineering, Guntur, India, 2001-2005.

Previous Experience:

1. Assistant Professor, Department of Mechanical Engineering, ANU College of Engineering and Technology, Acharya Nagarjuna University, Guntur, 11/08/2012 to till date.

Subjects Handled in the Department:

- Material Science & Metallurgy
- Design for Manufacturing
- Reliability Engineering
- Industrial Engineering & Management
- Operations Management
- Energy Resources & Utilization
- Industrial Management
- Professional Ethics & Human Values

- Engineering drawing
- CAM

Research Interests:

Bio Materials, Bio Medical Implants, Smart Materials, Composite Materials,
Genetic Algorithm, DOE Techniques.

Research Activities:

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| 1. No of journal papers published | :13 |
| 2. No of conference presented | :1 |
| 3. No. of workshops, FDP's Organized | :14 |
| 4. No.of. Patents | :1 |

Journals:

1. Purna Chandra Sekhar B, "Experimentation of Multi Objective of Machine Parameters for Milling Process." On International Journal of Recent Scientific Research, Year 2016.
2. Purna Chandra Sekhar B, "Powder Mixed Dielectric in EDM" On IJSART, 2015.
3. Purna Chandra Sekhar B, "Design and Simulation of Convergent - Divergent Nozzle by Using Computational Fluid Dynamics." IRJET, 2016.
4. Purna Chandra Sekhar B, "Parametric Optimization of Wear Behaviour of Friction Stir Welding Dissimilar Joints", IJSART, 2016.
5. Purna Chandra Sekhar B, "Design Modelling and Analysis of Turbine Compressor Blade by FEA." IRJET, 2016.
6. "Static Analysis of Wheel Rim Using CATIA AND FEM", IRJET, 2016.
7. Purna Chandra Sekhar B, "Markov Chain Analysis of Pitting Corrosion in Underground Gas Transmission Pipe Lines to Prevent from the Failure" IJSART, 2016.
8. Purna Chandra Sekhar B, "Metallurgical Characterization of Friction Stir Welding Joints of AA6061-6061, AA6061-6082, AA6082-6082." IJSART, 2016.
9. Purna Chandra Sekhar B, "Wear Behavior of Welded and Non Welded Samples of Friction Stir Welding of Similar and Dissimilar Joints of Aluminum Alloys" IJMET, 2016.

10. Purna Chandra Sekhar B, "Investigation of Mechanical Properties of Agave Americana Fiber Reinforced Hybrid Composites" IJRASET, 2017.
11. Purna Chandra Sekhar B, "Modelling Manufacturing Green GO-KART." TRANS STELLAR, 2017.
12. Purna Chandra Sekhar B, "Analysis and Applications of Train Models Based on SIMPACK" ANUJET, 2022.
13. Purna Chandra Sekhar B, "Design and Analysis of Above Ground Fixed Roof Sulphuric Acid Storage Tank." ANUJET, 2022.

Conferences:

1. International Conference on Advances in Material & Manufacturing Engineering
Organized by Department of Mechanical Engineering, University College of Engineering & Technology, Acharya Nagarjuna University.