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| Name of Faculty | Dr.K. Mahendra Babu | |  |
| Designation | Assistant Professor | | |
| Nature of Job/Appointment | Contract | | |
| Date of Joining | 28-02-2021 | | |
| E-mail | mahendrababuk_mech@cbit.ac.in | | |
| Education Qualifications | Name of the Degree | Class | |
| Ph. D | Doctor of Philosophy (Vehicle engineering) | Awarded | |
| PG | M. E(Automotive Engineering) | First | |
| UG | B. Tech (Mechanical) | First | |
| Work Experience | | | |
| Teaching | 07Years | | |
| Research | 03 years | | |
| Industry | -- | | |
| Others | --- | | |
| Area of Specialization | Automobiles Engineering and Thermal systems | | |
| Professional Memberships | Life Member ISTE | | |
| Responsibilities held at Institution Level | | | |
| Responsibilities held at Department Level | | | |
| Research Guidance | | | |
| Awards Received | -- | | |
| Courses Handled at Under Graduate / Post Graduate Level. | Automobile Engineering, thermodynamics, Heat and Mass Transfer, IC engines, Vehicle Dynamics, Fluid Mechanics, Intellectual Property Rights | | |
| No. of Papers Published | National Journals – 02 | International Journals – 04 | |
| | National Conference – 01 | International Conference – 04 | |
| Projects Carried out | | | |
| Patents | 01 (filed) | | |
| Technology Transfer | -- | | |
| Invited Speaker | | | |
| No. of Books/Chapter Published with details | | | |
| Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized). | <ol style="list-style-type: none"> 1. Attended a one-week faculty development program (FDP) on Solid-works software at Lovely Professional University in 2012. 2. Attended a two-week FDP on Optimization techniques in the manufacturing system in Bannari Aman Institute of Technology in 2012. 3. Attended a two-week FDP on engineering mechanics in GITAM University conducted by IIT Mumbai in 2014. 4. Attended a one-week FDP on Fluid mechanics in GITAM University conducted by IIT Madras in 2013. 5. Attended a seminar on Intellectual property rights in 2015. As Presenter. 6. Presented a seminar on Renewable energy systems 2011 in RIT, Yanam. 7. Presented a Three-day workshop on Vehicle dynamics, 2014 at GITAM University, Visakhapatnam. 8. Presented a five-day workshop on Engine technology, 2016, at GITAM University, Visakhapatnam. 9. Presented a Three-day workshop on Matlab/Simulink control tool kit, 2019 in NTUT, Taiwan. (as a Teaching Assistant) 10. Presented a two-day seminar on LabVIEW software, 2019, in NTUT, Taiwan. (as a Teaching Assistant) | | |

Details of Journal Publications/
Conferences (**National and International**)

International Journal

1. Mahendra Babu Kantipudi, Shiao, Yaojung, and Tun-Hao Yang. "Performance estimation of an engine with magnetorheological variable valve train." *Advances in Mechanical Engineering* 11.5 (2019): 1687814019847795.
2. Mahendra Babu Kantipudi, Shiao, Yaojung, and Jing-Wen Jiang. "Novel Spring-Buffered Variable Valve Train for an Engine Using Magneto-Rheological Fluid Technology." *Frontiers in Materials* 6 (2019): 95.
3. Mahendra Babu Kantipudi, Shiao, Yaojung, and Premkumar Gadde. "Mode Strategy for Engine Efficiency Enhancement by Using a Magneto-Rheological Variable Valve Train." *Journal of Energy Resources Technology* 143.6 (2021).
4. Mahendra Babu Kantipudi, Yaojung Shiao, Thang Hoang, 'Development of Multilayer Magneto-rheological Brake for Knee-orthosis Applications', Chinese Society of Mechanical Engineering. (Accepted)

National Journals:

1. Pullagura, Gandhi, M. Babji Alapati, K. M Babu*, and R. Prakash. "Effect of hydrogen enrichment on the combustion characteristics of a biofuel diesel engine." *IOSR Journal of Engineering* 2.1 (2012): 001-006.
2. Pullagura, Gandhi, Kantipudi Mahendra Babu et al. "EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE AND EMISSION CHARACTERISTICS OF KARANJA BIODIESEL AND ITS BLENDS IN A CI ENGINE."

International Conferences:

1. Mahendra Babu Kantipudi, Yaojung Shiao, Premkumar Gadde, "Effect of Magnetic Hysteresis on Engine Performance for a Magneto- Rheological Valve Train", ICASI – 2020, Taiwan.
2. Mahendra Babu Kantipudi, Yaojung Shiao, Chien-Hung Lai, "Development of Multilayer Magneto-rheological Brake for Knee-orthosis Applications", IMETI 2019 (Taiwan), November 15-19, 2019
3. Mahendra Babu Kantipudi, Shiao, Y., "Mode Strategy for Engine Efficiency Enhancement by Variable Valve Train with Magnetorheological Valve", 2018, IEEE ICASI-2018, Japan
4. Mahendra Babu Kantipudi, Rajesh babu, 'Design and Analysis of Solar Assisted Electrical Vehicle, ICRRETMME- 2019, India.

National conferences:

- 1) Control strategy for magnetorheological fluid variable valve engine, SAE Taiwan, 2019