



DEPARTMENT OF AEROSPACE ENGINEERING

Defence Institute of Advanced Technology (DU)

Girinagar, Pune - 411025, INDIA



Dr. R K Satapathy

Ph.D. (AcSIR Ghaziabad)

Professor (on contract), School of Defence Technology

➤ 38+ Years Experience in Industry, Research & Teaching



Research Areas

1. Engine Lining & IVHM, 2. High Temperature Coatings, 3. Accident Investigation

Awards

1. Appreciation Letter from SA to RM & Secretary DRDO for AN 32 A/C Engine Life Extension & Saving Rs 350 crores. 2010
2. Titanium Medal & Commendation Certificate. SA to RM & Secretary DRDO -2008

Publications (Total)	Journals	Conferences	CEPs/ STTP Conducted	Invited Talks	PhDs Guided	M.Tech/Master's Theses Guided
17	11	06	03 CEPs & 02 Workshops	12 National, 01 International	01 Completed	18

Facilities Developed

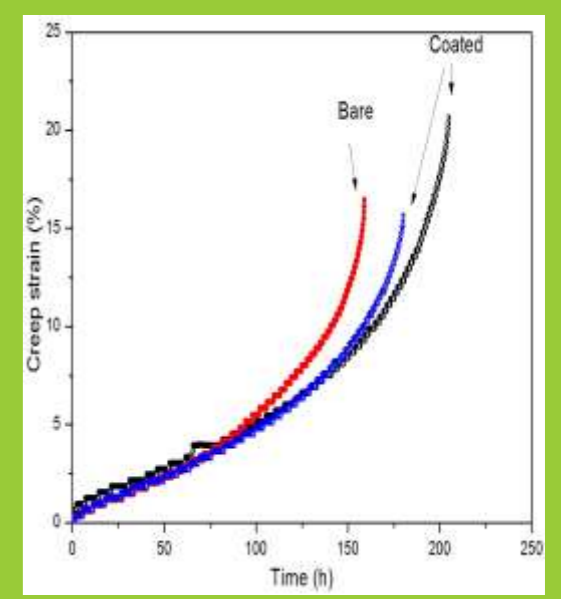
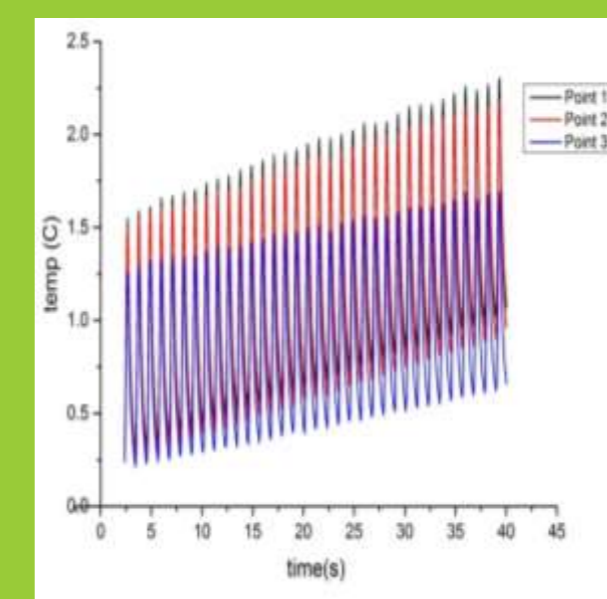
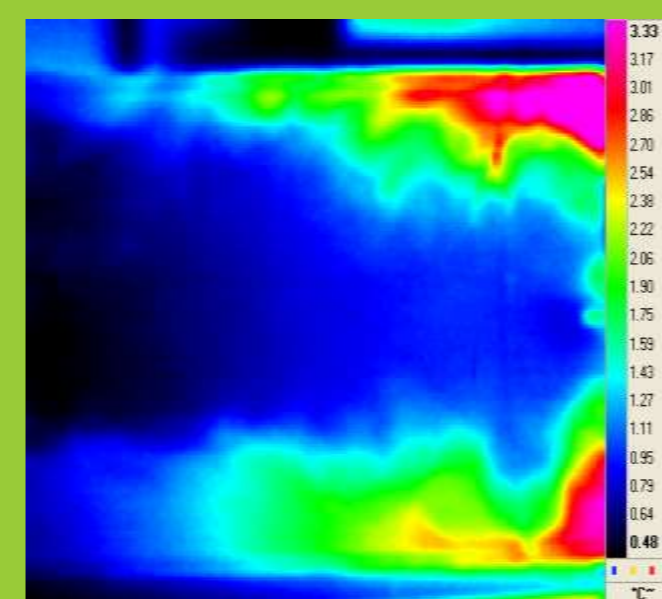
One legacy Rolls –Royce Conway 508 aeroengine, First Civil low bypass engine set up for Educational purposes & display.

Research Highlights



Professional Membership

- Life Member AeSI
- Life Member-Indian Institute of Metals
- Member ISNT
- Member- Society for Failure Analysis, American society for Quality



Peer Reviewed Journal Publications (selected Five)

1. Modeling of Degradation in Gas Turbine Engine by Modified Off-Design Simulation, DSJ-2022,72(2), 133-145, doi: 10.14429/dsj.72.15428
2. Effectiveness of lanthanum zirconate and Ytria-stabilised zirconia freestanding APS thermal barrier coatings against natural CMAS attack at high temperatures, Materials at High Temperatures, 2020, VOL. 37, NO. 6, 416–424, <https://doi.org/10.1080/09603409.2020.1811600>
3. Influence of Machining Process on Surface Integrity and Fatigue Life of a Turbine Rotor Blade, Advances in Structural Integrity, Springer.2018
4. Design point parameter estimation of a legacy twin spool turbojet engine for health monitoring. Journal of Aeronautical Society of India, 2016
5. Effect of Operating Variables on the Performance of a Highly Loaded Annular Combustor, International Journal of Turbo & Jet-Engines, 2015