

Name of Faculty **Dr. P. RAVINDER REDDY**

Designation Professor & I/c Director and Head- R&E

Nature of Job/Appointment Regular

Date of Joining 19-06-1992

E-mail ravinderreddyp\_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Mechanical Engineering).	Awarded
PG	M.E. (Engineering Design)	First with Distinction
UG	B.Tech (Mechanical Engineering)	First with Distinction

#### Work Experience

Teaching	34 Years 5 Months
Research	26 years
Industry	--
Others	--

#### Area of Specialization

Engineering Design, Composite and Nano Materials, Fracture Mechanics, CAD/CAM/CFD, Finite Element Analysis, Vibration and Acoustics, Robotics, Friction Stir Welding, Metal Forming, Bio Engineering and LVADs

#### Professional Memberships

1. Life Member, Indian Society for Mechanical Engineers (ISME) LM 363
2. Life Member, Indian Society for Technical Education (ISTE) LM 10198
3. Life Member, Association for Machines and Mechanisms (MAMM).
4. Life Member, Fellow of Institution of Engineers (FIE) F-11622-5
5. Chartered Engineers India. (C. Engg.) M124759-4
6. Member, American Society of Mechanical Engineers (ASME) 000008597460
7. Member, Institution of Electrical and Electronics Engineers (IEEE)
8. Life Member, Society of Aerospace, Quality and Reliability Engineering (SAQR) LM-86
9. Life Member, International Association of Engineers (IAENG) M-104801
10. Life member, Condition Monitoring Society of India
11. Member, Science and Engineering Institute (SCIEI) 201706120003

#### Responsibilities held at Institution Level

1. Principal from August 2017 to 3<sup>rd</sup> July 2023
2. Member Senate, OU, from August 2017 to 3<sup>rd</sup> July 2023
3. Head of Mech. Engg. From 2008 to 2018
4. Dean R&D from 2014 to 2018
5. Chairman BOS from 2013 to 2018.
6. Procurement Coordinator, TEQIP-II of CBIT from 2013 to 2017.
7. Member GOB of CBIT from 2013 to 2016.
8. Member Secretary, Governing Body of CBIT from 2017 to 3<sup>rd</sup> July 2023.
9. Chairman, Academic Council of CBIT from Aug.2017 to 3<sup>rd</sup> July 2023
10. Chairman, Finance Committee of CBIT, from Aug.2017 to 3<sup>rd</sup> July 2023

11. Chairman, Grievance Redressal Mechanism for Faculty, Staff and Students from Aug.2017 to 3<sup>rd</sup> July 2023.
12. Chairman, Establishment of Anti Ragging Committee from Aug.2017 to from Aug.2017 to 3<sup>rd</sup> July 2023
13. Chairman, Establishment of Committee for SC/ST from Aug.2017 to from Aug.2017 to 3<sup>rd</sup> July 2023.
14. Chairman, Internal Quality Assurance Cell from Aug.2017 to from Aug.2017 to 3<sup>rd</sup> July 2023
15. Chairman, IIC, from 2017 to from Aug.2017 to 3<sup>rd</sup> July 2023
16. Director and Head, R&E from 3<sup>rd</sup> March 2021 to Till date

Responsibilities held at Department Level

1. Chairman, Board of Studies from 2013 to 2018
  2. Member, Board of Studies from 2018 to till date
  3. Chairman, Program Advisory Committee from 2013 to 2018
  4. Chairman, Department Advisory Committee from 2013 to 2018
  5. Member, DRC
  6. In charge CAD/CAM, CFD and Research Labs till 2018.
  7. Chairman, Mechanics from 2008 to 2016.
  8. Faculty Advisor for M.E CAD/CAM from 2003 to 2008
- Ph. D Degree Awarded: 29; Ph. D Thesis Submitted: 04;  
Ph D pursuing: 06

Research Guidance

1. **Mr Dacheepalli Sanyasi Setty**, Dynamic study of Resistance Welding in the Fabrication of Nuclear Fuel Pins, Awarded on 28<sup>th</sup> August 2009 by JNTU Hyderabad
2. **Mr Shaik Khadravalli**, Impact Testing of Advanced Ceramic Composites Using Experimental and F.E. Analysis, Awarded On 23<sup>rd</sup> Dec.2010 by JNTU Hyderabad
3. **Ishtiaq Ahmed Khan**, Experimental and Numerical Investigations on the Friction Welding Process, Awarded On 1<sup>st</sup> Nov. 2011 by JNTU Hyderabad
4. **Rampelli Uday Kumar**, Characterization and Simulation of Deep Drawing Process through Finite Element Analysis, Awarded On 4<sup>th</sup> February 2012 by JNTU Hyderabad
5. **Pondu Ratnakar**, Investigations on Synthesis and Characterization of Nanoceramic Composites and Simulation Studies on Modeling and Analysis of Single and Multi Walled Carbon Nanotubes, Awarded On 9<sup>th</sup> March 2012 by JNTU Hyderabad
6. **Gundagani Laxmaiah**, PSD analysis of Hermetic Compressor using Finite Element Analysis, Awarded On 6<sup>th</sup> February 2013 by Osmania University, Hyderabad.
7. **A. A. Sri Ramakrishna**, Machinability on Metal Matrix Composites using Experimental and Numerical Techniques, Awarded On 11<sup>th</sup> March 2013 by Osmania University Hyderabad.
8. **P.Rama Lakshmi**, Estimation of Fracture Behavior of Carbon Epoxy and CNT Reinforced Carbon Epoxy Composites, Awarded On 16<sup>th</sup> May 2014 by JNTU Hyderabad
9. **Gurram Mallaiah**, Influence of Grain Refinement Elements on Mechanical Properties & Residual Stresses of AISI 430 Ferritic Stainless Steel Weldments and Validation of Residual Stresses using Finite Element Analysis, Awarded On 20<sup>th</sup> June 2014 by JNTU Hyderabad
10. **Gulam Mohd Sayeed Ahmed**, FEA Based Modelling of Magneto Rheological Damper to Control Vibrations During Machining, Awarded On 31<sup>st</sup> July 2014 by JNTU Hyderabad
11. **Konakala Bala Showry**, Development of a Multi Dimensional Axisymmetric Model for Diesel Engine Combustion and Emissions, Awarded On 12<sup>th</sup> December 2014 by JNTU

Hyderabad

12. **E. Venkata Ramana**, Data Mining Approach for Developing Decision Support System to Process Control and Quality improvement, Awarded On 9<sup>th</sup> December 2015 by JNTU Hyderabad
13. **Y Venkatanarayana**, Investigations on Buckling of Laminated Composite Cylindrical Shells, Awarded On 26<sup>th</sup> March 2016 by JNTU Hyderabad
14. **P. Raj Kumar**, Analysis of buckling of springs (Helical compression) over different range parameters, Awarded On 6<sup>th</sup> July 2016, by Osmania University, Hyderabad.
15. **Afroz Mehar**, Analysis of Orthotropic Cylindrical Shells with Helically wound Fiber Reinforcement Subjected to Different Loading Conditions, Awarded On 2<sup>nd</sup> September 2016 by JNTU Hyderabad
16. **K.B Jagadeeshgouda**, Mechanical and Tribological Characterization of Bio-Composite Material-Reinforced with Poultry Feather Fiber, Awarded On 29<sup>th</sup> September 2016 by JNTU Hyderabad
17. **S Soloman Raj**, Design Of Composite Propellers For Higher Cavitation Performance By Using CFD & FEM Analysis. Awarded On 1<sup>st</sup> Aug. 2017, by Osmania University, Hyderabad
18. **Md.Aleem Pasha**, Experimental And Numerical Investigation On Friction Stir Welding Of Aluminum And Magnesium Alloys, Awarded On 3<sup>rd</sup> Nov. 2017, by Osmania University, Hyderabad
19. **S Mujeeb Khadir**, Development and characterization of Aluminum Metal Matrix composite using red mud and silicon carbide, Awarded On 12<sup>th</sup> March 2018 by Gitam University, Visakhapatnam
20. **Syed Azeem Pasha**, Electrical discharge Machining Characteristics of FSP Fabricated Metal Matrix Surface Composites, Awarded On 16<sup>th</sup> March 2019 by Osmania University, Hyderabad
21. **S.V Prasad**, Distortion reduction in monolithic machining, Awarded On 8<sup>th</sup> July 2019 by Osmania University, Hyderabad
22. **P. Ashok Kumar**, Delamination Modelling and fracture control in FRP Composite materials, Awarded On 3<sup>rd</sup> March 2020 by JNTU Hyderabad
23. **A. C. Sekhara Reddy**, A Study on Parameter Optimization and Evaluation of LDR in Deep Drawing Process, Awarded On 20<sup>th</sup> July 2021 by Osmania University, Hyderabad
24. **G. Chandra Mouli**, Experimental and Numerical Studies on Launch Dynamics For a Canisterized Surface to Air Launched Flight Vehicle, Awarded On 14<sup>th</sup> Oct. 2021, Osmania University, Hyderabad
25. **Syed Naveed Ahmed**, Thermal Impact of Secondary Flow and Disk Design on Aircraft Engine Compressor Disks, Awarded On 20<sup>th</sup> Feb. 2023, Osmania University, Hyderabad
26. **K. Chiranjeevi Sabitha**, Evaluation of Mechanical Properties and Forming, Characteristics of Tailor Welded Blanks, Awarded On 19<sup>th</sup> April 2023, Osmania University, Hyderabad
27. **Hanumanthu Krishna Murthy Dora**, Impact of Ergonomics On The Productivity and Cost Of Production to the Company- A Case Study, Awarded On 31<sup>st</sup> Aug. 2023, Osmania University, Hyderabad
28. **Venkatasushma Chinta**, Characterization and Analysis of Hybrid Composite Structures Using Experimental and

Analytical methods, Awarded On 28<sup>th</sup> Oct. 2023, JNTU Hyderabad

29. **Jagadiswar Kandula**, Experimental and Numerical Investigations of Cavitating flow past axisymmetric bodies, Awarded on 11<sup>th</sup> Jan.2024, Osmania University, Hyderabad

#### Submitted-04

1. **P. Anjani Devi**, Testing and FE Modeling of Fatigue Delamination in Composite Materials Submitted at JNTU Hyderabad on Oct 2023.
2. **K. V Kasi Viswanadham**, Optimization of cutting Parameters while Machining FRP Composite Materials Submitted at JNTU Hyderabad on Oct.2023
3. **Ramadugu Swetha**, Design of Manufacturing of Functionally Graded Turbine blade by Additive Manufacturing Process, at OU , **Supervisor:** Prof. L Siva Ramakrishna, Regd. On 23<sup>rd</sup> March 2017 submitted on Dec.2023
4. **Sayyad Shaik**, Friction Welding of Incompatible Materials, at OU, **Co supervisor:** Prof. P. Laxminarayana, Regd. On 23<sup>rd</sup> March 2017 submitted on Dec.2023

#### 18 Awards

1. Bronze medal from "Mathematical Olympiad", 1983
2. "UGC Fellowship" award by UGC (1999)
3. Best Teacher Award by Chaitanya Bharathi Institute of Technology during the academic year 1998-1999.
4. Raja Rambapu Patil National Award for promising Engineering Teacher by ISTE for the year 2000 in recognition of his outstanding contribution in the area of Engineering and Technology
5. Received prestigious "Meritorious Educational Excellence award" on 5th December 2002 at New Delhi by Global Society For Health & Educational Growth.
6. Received prestigious "Rashtriya Shiksha Ratan Award " on 5th December 2002 at New Delhi by All India Business Development Association.
7. Excellence "A" Grade awarded by AICTE monitoring committee for the MODROB project sponsored by AICTE.
8. "Engineer of the year Award-2004" for his outstanding contribution in Academics and research by the Govt. of Andhra Pradesh and Institution of Engineers (India), AP State Centre on 15th September 2004 on the occasion of 37th Engineer's Day.
9. Distinguished Alumnus award - 2006 during Silver jubilee celebrations of KITS Warangal, AP
10. The Biography is included in Marquis Who's Who in the World-2007 during Aug.2007
11. Best Technical Paper Award in the year Dec. 2008 in Industrial Application titled "Online quality monitoring welding & weld upset in resistance projection welding process", in Journal of Non-Destructive Testing & Evaluation, the official journal of ISNT during the year 2007 by National Governing Council of Indian Society for Non Destructive Testing.
12. Best paper award by international academy of sciences for the paper on Aerodynamic Analysis of Return Channel vanes in Centrifugal compressors, International journal of Mechanical Engineering, on 31.01.2016
13. Best Teacher Award by Chaitanya Bharathi Institute of Technology, Hyderabad on 9th March 2017
14. NATA Excellence Award by North American Telugu Association (NATA) for the Outstanding Services in Engineering on 6th July 2018 at Philadelphia Convention Centre, Philadelphia, USA
15. Distinguished Leader award by Venus International Foundation for the contribution and achievement in the discipline of Engineering on 5th January 2019
16. Best Paper Award for the paper I'd AIP-46 entitled "Numerical

Awards Received



Investigation of Cavitating Flows in the Step Nozzle” in the International Conference on Advancements in Aeromechanical Materials for Manufacturing(ICAAMM-2020) organized by Department of Aeronautical & Mechanical engineering, held on 24th & 25th July 2020, MLR Institute of Technology, Hyderabad, Telangana State, India

17. International Scientist Award (HISA 2021) on Engineering, Science and Medicine, 07 & 08 Aug. 2021 Pondicherry, India by VDGGOOD Professional Association

18. Prestigious Bharat Ratna Sir Mokshagundam Visvesvaraya Award for outstanding contribution in Engineering by the Govt. of Telangana and Institution of Engineers (India), Telangana State Centre on 15th September 2022 on the occasion of 55th Engineer's Day Celebrations (in commemoration of the 162nd Birthday of Bharath Ratna Sir Mokshagundam Visvesvaraya).

Courses Handled at Under Graduate / Post Graduate Level.

UG Level: Engineering Mechanics, Mechanics of Materials, Elements of Mechanical Engineering, Kinematics of Machines, Dynamics of Machines, Design of Machine Elements, Machine Design, Machine Drawing, Computer Graphics, CAD/CAM, Computer Graphics and Design, Finite Element Analysis, Finite Element Techniques,

PG Level:

Computer Aided Modeling and Design, Computer Aided Design and Analysis, Advanced Finite Element Techniques, Artificial Intelligence, Neural Networks and Fuzzy Logics, Composite Materials, Vibrations, Robotics, DFMA and Advanced Dynamics of Machines, Fracture Mechanics, Failure Analysis and Design

No. of Papers Published

National Journals – 15

International Journals – 188

National Conference – 71

International Conference – 74

No. of Research and Sponsored Projects: 23

Revenue generated/fund received: Rs.3.50 Cr

Consultancy Projects completed: 32

Projects Carried out

1. Design and development of Low Cost LVAD, MSME Business Incubator, 15.0 Lakhs, July 2023

2. Principal Investigator, For the Development of the components of Artificial Heart-Indo USA, in collaboration with Pittsburg University, USA, Cornell University, USA and Share India (Consortium Project) , Rs.50 Lakhs

3. Principal Investigator, Experimental and Numerical Investigations on Friction Stir welding of Aluminum and Magnesium alloys, UGC sponsored Minor Research, March, 2017- March 2019, Rs.2.70 Lakhs

4. Mentor, Implementation of composite materials wind blades in wind mills, File no. sr/wos-A/ET-1092/215(G), Govt. India Ministry of Science & Technology, Dept. of Science & Technology, Duration 2015-2018, Grant in aid: Rs.22.99 Lakhs.

5. Principal Investigator, Mechanical and Fracture Properties of Bio Composite Reinforced with Chicken Feathers, AICTE sponsored RPS scheme, Duration: 2012-2015, Grant in aid: Rs.18.05 Lakhs

6. Chief Coordinator, Modernization of Thermal Engineering Lab, AICTE MODROB, sponsored by AICTE, Duration: 2012-2013, Grant in Aid: Rs.8.75 Lakhs

7. Principal Investigator, FEA Based Modelling of Magnetoreological Damper to Control Vibrations during Machining (RD2010655): Sponsored by IET RD Cell, Kolkata West Bengal. Duration :2012-2013, Grant in Aid: Rs.1.50 Lakhs

8. Principal Investigator, Thermal and Air Flow Analysis of DRC Shelter/ Container using CFD and FEA analysis, ICOMM Teleservices, Duration:2011-2012, Grant in Aid: Rs.1.2 Lakh
9. Principal Investigator, Thermal and Air Flow Analysis of CTP Shelter/ Container using CFD and FEA analysis, ICOMM Teleservices, Duration:2011-2012, Grant in Aid: Rs.1.2 Lakhs
10. Principal Investigator, Analysis of two versions of composite NDE and DE Flanges, sponsored by Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam, Duration: 05.05.2011 to 05.08.2011, Total grant received Rs.3.50 Lakhs.
11. Principal Investigator, Design of Composite Propeller for Estimating Cavitation Performance And strength using CFD&FEM Analyses, sponsored by Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam, Total grant received Rs.5.55 Lakhs, Duration: 27.05.2010 to 27.05.2011
12. Principal Investigator, Design and Development of Composite (FRP) Blower for Low Noise By using FEM & CFD Analyses" sponsored by Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam, Duration:25.09.2009 to 15.02.2011, Total grant received Rs.8.99 Lakhs.
13. Principal Investigator, Design of Composite Propeller for Higher Cavitation Performance, Sponsored by Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam. Duration:14.03.2008 to 25.11.2009, Sanctioned amount: 9.77 Lakhs
14. Principal Investigator, Analysis on solar panel structure Design due to wind and shock loads, Arunav of Punj Lloyd Gurgaon, Delhi, Duration: 2008 -2009, Sanctioned Amount: Rs.1.00 Lakhs.
15. Chief Coordinator, AICTE sponsored MODROBS Project on Modernization of CAD/CAM Lab, Duration: 2008 -2010, Sanctioned amount: Rs. 12.0 Lakhs.
16. Co -Investigator, AICTE sponsored R&D project on Integration of texture segments and optical character recognition for multimedia data bases, Duration: 2006 -2009, Sanctioned Amount: Rs. 8.0 Lakhs
17. Chief Coordinator, Industry Institute Partnership Cell (IIPC), Sponsored by AICTE, Duration 5 Years (2005 -2010), Grant in Aid: Rs.10.00 Lakhs
18. Chief Coordinator, Tool wear and Orthogonal Cutting of Carbon Composites, UGC sponsored Project, Duration: 3 years (2000 -2003), Total: Rs. 13.0 Lakhs (Grant in aid and Salaries to chief coordinator)
19. Principal Investigator, Fracture Based Design of Ceramic Composites and Fibre Geometric Modeling, AICTE sponsored R&D Project, Duration: 2 years (1999 -2001), Grant in aid: Rs. 3.0 Lakhs
20. Principal Investigator, Development of Test Rig for over speed Governor for High Speed turbines, BHEL sponsored Project, Duration: 2 years (1997 -1999), Sanctioned amount 13.5 Lakhs
21. Finite Element Techniques and Practices, At Directorate of Engg., D. R. D. L, Hyderabad. July 21 to 26, 2003 For Scientists, Sanctioned amount:Rs.1.8 Lakhs
22. Computer Aided Design and Analysis (Jointly with AICTE - ISTE), Aug 12th - 27th 1999 For industry and institute, Sanctioned Amount:Rs.2.00 Lakhs
23. Numerical Methods and Computer Applications, in

**PATENTS GRANTED: 05 and  
PATENTS PUBLISHED: 09**

**Patents Granted:5**

1. Isthiaq Ahmmed Khan, and **Dr P Ravinder Reddy**, filled a Patent on 29.04.2013 and published on 20.03.2015 with a Patent No.352628 granting date 27.11.2020 with application no.1550/MUM/2013 for an invention entitled "An Apparatus and method for Joining of Weldable or Non weldable Materials" patentee Tata Technologies Pte Ltd Pune for the term of 20 Yrs from 29th day of April 2013 in accordance with the provisions of Patents Act, 1970.
2. Applicant: CBIT and Tata Technologies Pvt Ltd, Inventors: **Dr P Ravinder Reddy**, Isthiaq Ahmmed Khan, Aleem Pasha, Patent No.385240, date of Grant: 27/12/2021, Application No.: 201741015659, Date of Filing: 03/05/2017, Title of the patent: A Composite Material Extrusion and Method of Manufacturing Thereof, for 20 years.
3. CBIT, **Dr. P. Ravinder Reddy**, T. Rugveda, The Design Patent on Blood Pump Impeller, Design No. 305590 date of filling: 14/05/2018 and date of issue of grant: 17.12.2021.
4. CBIT, **Pinninti Ravinder Reddy**, Tanneru Rugveda, Magneto Blood Pumping Device. A design Patent granted on 23.03.2022, with file No. 306263
5. Lakshmanan Ramayee, **Pinninti Ravinder Reddy**, Katiresan Supradeepan , Wind Turbine Duct Having Exit Fold And Shallow Slots, Application No. 202241004270, Date of Filing:25.01.2022, Patent No.437832, granted on 07.07.2023

**PATENTS PUBLISHED: 09**

1. **Dr P Ravinder Reddy**, K B Jagadeeshgouda, a patent is published with File No.: 201641028876, date of file: 24.08.2016 in the field of Hybrid Fiber Reinforced Friction Material and the title of Invention: Tribological Behavior of Hybrid Fiber Reinforced Friction Material. Date of Publication: 02/09/2016.
2. **Dr P Ravinder Reddy**, K B Jagadeeshgouda, a patent is published with File No.: 201641032709 date of file: 27.09.2016 in the field of manufacturing of flame-retardant poultry feather fiber blended non-woven sheets or fabric having moderate strength in the presence of binder materials as pulp of lawn-grass and waste-paper using hydro-entangled technique and the title of Invention is Flame Retardant Poultry Feather Fiber Non Woven Sheet and Process for the making same. Date of Publication: 07/10/2016.
3. **Dr P Ravinder Reddy**, Isthiaq Ahmmed Khan, Aleem Pasha, a patent is published with File No.: 201741015659 A, date of

filing of application: 03.05.2017 and Publication date:12/05/2017 with title of invention as A Composite Material Extrusion and Method of Manufacturing Thereof and the field of invention: is the invention provides a composite material extrusion and method of manufacturing thereof using friction stir welding process

4. **Dr P Ravinder Reddy**, Sri T. Rugveda, Blood Pump Impeller, a design patent filled on 14th May 2018 with file No. 305590
5. **Dr P Ravinder Reddy**, Sri T. Rugveda, Magneto Blood Pump. A design Patent filled on 21.05.2018, with file No. 306263
6. **Dr P. Ravinder Reddy**, T.Rugveda, Wobbling Free Magnetic Coupled Body-Fluid Pumping Apparatus, Application No. 202141061650, date: 30.12.2021.
7. Lakshmanan Ramayee, **Pinninti Ravinder Reddy**, Katiresan Supradeepan , Wind Turbine Duct Having Exit Fold And Shallow Slots, Application No. 202241004270, Date:25.01.2022
8. Chinta Venkata Sushma, Palla Nishant Bhanu, Shaik Chand Pasha, Amireddy Kiran Kumar, **Pinninti Ravinder Reddy**, Sara Solomon Raj, Robotic manipulator for pick and place applications, No. 202241067534 dated 24/11/2022, Published on 02.12.2022, a Utility (Product).
9. A. Kiran Kumar, Chinta Venkata Sushma, **Pinninti Ravinder Reddy**, Sara Solomon Raj, Pedamallu Radha Krishna Prasad, Method and system for detection of delamination in a layered structure, file No. 202241067170 filed on 22-11-2022, Published on 23-12-2022, a Utility (Product).

Technology Transfer: 04

1. Development of LVAD -under testing stage
2. Developments of Hybrid Composites with Paper, Pulp, Chicken feathers in FRPs for making Bio Composites for dash boards and internal partitions
3. Development of two versions of composite NDE and DE Flanges for the Ship Propellers
4. Design and Development of Composite (FRP) Blower for Low Noise for the Ship Blowers,
5. Design and Development of Composite Propeller for Estimating Cavitation Performance and strength for the Ship Propellers
6. Design and Development of Composite Propeller for Higher Cavitation Performance
7. Development of Test Rig for over speed Governor for High Speed turbines, BHEL Hyderabad
8. Wind Turbine Duct Having Exit Fold And Shallow Slots
9. Development of Carbon carbon composites for nose cone
10. Multi layers and kinked composites for aerospace wing structures
11. Development naval material for Rock drilling

Technology Transfer

**Expert lectures delivered: 147**

1. Delivered a talk on Computer Aided Design, Feb. 1992 at Symposia conducted at CBIT
2. Delivered a talk on Automation and Robotics, July. 1992 at CITD
3. Delivered a talk on Interfacing CAD to FEA, Dec. 1992 at CITD
4. Delivered a talk on Dynamic Simulation and Prototype Testing, March. 1993 at BHEL
5. Delivered a talk on Computer Aided Design and Manufacturing, Feb. 1994 at DRDL
6. Delivered a talk on Use and Applications of AutoCAD, Dec.1994 at CBIT
7. Delivered a talk on Advances in CAM, March.1995, VCE
8. Delivered a talk on Scope of Mechatronics, Aug.1995.
9. Delivered a talk on Application of FEA, Dec. 1996 at OU
10. Delivered a talk on Finite Element Analysis, Jan.1997 at GITAM
11. Delivered a talk on Use of MasterCAM in Industry, Feb.1997

Invited Speaker



at NITW

12. Delivered a talk on CAD Data Transfer and Integration with FEA, Feb.1997 at NITW
13. Delivered a talk on Transient Dynamics in Composites Structures, Aug.1996, At CBIT
14. Delivered a talk on Spin Behavior of Orthotropic Plates, Dec.1997 at RR Industries
15. Delivered a Lecture on CNC Part Program, 11th Jan. 1998 at CAD/CAM Infotech, Hyderabad
16. Delivered Lecture on Capabilities and Features of ANSYS R 5.3, 14th Jan.1998 at CITD, Balanagar
17. Delivered a Lecture on Applications of Pro-Engineer Software, 5th March.1998 at CITD Balanagar
18. Facilities and Usage of Internet, May. 1998.
19. Delivered a lecture on Future and present modelling techniques using CAEFEM, 25th July.1998 at CTTC Bhuvanewar
20. Delivered a talk on Capabilities and solvers used in CAEFEM, 12th Sept. 1998 at DRDL Pune
21. Delivered a talk on Transient Dynamic analysis of large towers subjected to wind and seismic loads, 10th Mar. 1999, at KITS warangal
22. Delivered a talk on Non-linear finite elements in engineering applications, 15th May. 1999, JNTU, Hyderabad
23. A Lecture on FEM Theory and Practice, 12th Aug. 1999 at College of engineering, OU, Hyderabad
24. Delivered series of talks on CAE tools in Automobile industries, Feb. 1-12, 2000, CITD, Hyderabad
25. Delivered series of lectures on the USE of FEAMAP and CAEFEM, Jan. 28-31, at DRDL, Hyderabad, 2001
26. Delivered an Expert Talk on Pre and Post Processing of CAD and CAE packages, CITD, Balanagar, March, 2001
27. Delivered a talk on Use of Virtual NC tooling in creating Manufacturing Databases, CTTC, Bhuvanewar, June, 2001
28. Delivered a talk on CAD applications in tooling, CIEPET, Charlapally, Hyderabad, 24th Jan, 2002
29. Keynote address on Pre and Post Processing of CAD and CAE packages, CITD, Balanagar, 01.02.2002.
30. Expert lecture delivered on Applications of Finite Element Analysis in Heat Transfer, UGC-Refresher course in Mechanical Engineering with emphasis on thermal engineering by JNTU, Kukatpally on 06.02.2002 .
31. Expert lecture delivered on Advanced modeling through FEMAP and Hypermesh and a review of various contact and gap elements in Adina and Ansys softwares, Workshop on Finite Element Modelling and Analysis at Swami Ramananda Tirtha Institute of Science and Technology, Nalgonda on 15.02.2003.
32. Expert lecture delivered on Crash Simulation using Finite Element Analysis, at Voith Turbo Pvt. Ltd., Hyd during 04th March 2003
33. A key note address delivered on Fatigue Analysis Using Design Space6.0 at AICTE Staff Development program on CAD/CAM Integration and Applications at GITAM College of Engg., Visakhapatnam, on 10.05.2003
34. Expert lecture delivered on Non-Linear Finite Element Analysis and Applications, at AICTE-ISTE STTP on Advanced Metal Forming Techniques and Finite Element simulations in Manufacturing, at Chaitanya Bharathi Institute of Technology, Hyderabad on 08.07.2003.
35. Expert lecturers delivered on Finite element Techniques and Practices at DOE, D.R.D.L Hyderabad from 21.07.2003 to 26.07.2003.
36. Delivered Lecture on Crash Simulation using Finite Element Analysis, at Voith Turbo Pvt. Ltd., Hyd during 04th March 2003
37. Delivered expert lecture on Application of Numerical methods in Engineering, At Engineering solution Division of Nuclear Fuel Complex, Apr 10th 2004, Hyderabad

38. Delivered expert lecture on Application of Finite difference and Finite elements in Pilgering , At Engineering solution Division of Nuclear Fuel Complex, Apr 13th 2004, Hyderabad
39. Delivered expert lecture on Use of Composite materials in Aerospace and automobile industry at Composite centre International, Hyderabad on 3rd July 2004
40. Delivered expert lecture on Application of Finite Elements in Engineering, National conference on recent trends in CAD/CAM, Guru Nanak Dev Engg.College, Bidhar, Karnataka, 29-30 July 2004.
41. Delivered expert lecture on Use of Finite Element in Creep, Fatigue and fracture mechanics' at Lakkreddy Balireddy college of Engineering, Mylavaram on 7th Feb 2005.
42. Delivered expert lecture on CFD solvers and Usage of Softwares, At syed Hasim college of Science and technology, Pregnapur, on 16th Mar.2005
43. Delivered expert lecture on Application of FEM to Heat Transfer Analysis one day Conference on significance of Mathematics in Engineering & Technology, on 7th April 2005, CBIT, Hyd.
44. Delivered expert lecture on Application of FDM & FEM in welding and Manufacturing under transient condition, A 3 Week UGC programme on Computational Techniques in thermal Engg., 15th April, 2005 at JNTU, Hyd.
45. Keynote address on CAD/CAM Integration and Applications, May 9th, 2005 AICTE Staff Development Program, GITAM, Vizag.
46. Delivered series of Expert Lectures on Finite Element Methods to Trainee Scientific officers at NFC - HWB, Hyd during 10th -27th May 2005.
47. Delivered expert lecture on Advanced Numerical methods in Engineering at JBIT , Hyderabad on 05.01.2006
48. Panel judge, and Delivered Keynote address, Nipuna '06, Dept. of Mech. Engg., university college of Engg.(A), O.U, Hyd-7 on 17-02-06.
49. Panel judge, and Delivered Keynote address, Connaissance '06, Dept. of Mech. Engg., JNTU college of Engg.(H), JNTU, Hyd on 24 and 25 Feb.06
50. Expert lecture delivered on Finite element solutions for Machine Dynamics and large towers made of composite Materials using FEA, at Laki Reddy Bali Reddy college of Engg., Mylavaram-521230, AP, on 20-06-2006, sponsored by AICTE.
51. Expert lecture Delivered on optimization of shape & size over Engine components under dynamic conditions at UGC sponsored Refresher Course, Academic staff college JNTU, Hyd, on 08-06-2006 .
52. Expert lecture Delivered on 'Dynamic analysis using Lumped and Consistent Masses' STTP on Computer Aided Engg. at MVSR, Hyderabad, on 04-07-2006.
53. Member Viva-Voce Committee – NFC, Trainee Scientific Officers(TSO'S), on 13-06-2006, NFC-HWB training school, Gurukul Complex, NFC, Hyderabad.
54. Expert lecture delivered for TSO's at NHTS at NFC-HWB on 18-04-2006 to 09-05-2006.
55. Member Technical Committee, national Conf. on recent advances in Computer Aided Engg.(RACE'06), March 3-04-2006 at Dept. of Mech. Engg., University College of Engg., OU, Hyderabad -7
56. Delivered expert lecture on Analysis of Beams and plates using Finite element Analysis at 14th-15th Feb.2007, at refresher course for faculty and industry personnel , Gurunanak Engineering college, Ibrahimpatnam, Hyderabad
57. Expert lecture delivered on Dynamic and Impact Response of Ceramic and Titanium Composites at 3-day National workshop on recent Advances in Fiber Reinforced Composite Materials, sponsored by AICTE, New Delhi, at V R Siddhartha Engineering College, Vijayawada, On 28.07.2007
58. Expert Lecture delivered on 'Application of FEM to different

problems in Engineering', Workshop on ANSYS and Finite elements in Machine Design at Aurora Engineering College, Bhongir, on 29.11.2007

59. Expert Lecture delivered on 'Application of CAE and FEA in Aerospace and Automobile Industry' at Aeronautical Engineering college, Dundigal, Hyderabad on 28.01.2008
60. Expert Lecture delivered on "Design Optimization of Machine Members and Case Study", AICTE sponsored 3 day National seminar on Applications of Optimizations Techniques in Mechanical Engineering held at Gudlavalleru Engineering College, Gudlavalleru, AP, on 21.01.2008
61. Expert Lecture delivered on research methodologies in engineering during one day workshop on research methodologies in Computer Science and Engg., on 8th May 2010 at CBIT.
62. Keynote address delivered on over view of Composite Structures-Design Case Studies, Design Sensitisation Seminar organized by Micro, Small and Medium Industries (MSME), Fibre Glass Association of AP, National Institute of Design (NID), Bangalore on 1st December 2010, at Hyderabad.
63. Expert lecture delivered on "Shape, Size and Topology optimization of Composite Structures using FEA", Faculty development Programme on Advances in CAD/CAM/CAE on 29th Dec.2010 organized by CMR College of engineering & Technology, Hyderabad
64. Expert lecture delivered on 'Design optimization and Analysis Review', 3-day National Workshop on Recent Advances in Mechanical Engineering (RAIME-2KX), organized by dept. of Mech. Engg., MJCET, Hyderabad on 29th Dec.2010.
65. Delivered inaugural address on Computational methods in engineering applications using FEA and CFD techniques with case studies during one 2 day workshop on CAD/CAM and CAE Advances at Vidya Jyothi Institute of Technology, Hyderabad on 8th March 2011.
66. Expert lecture delivered on Finite element modeling, Meshing and Formulations during one day workshop on Finite element methods at Christu Jyothi Institute of Technology and Science, Jangam, Warangal on 12th Nov.2011
67. Delivered Invited lecture on Studies on Fracture behavior and strength Characteristics of Carbon Epoxy & CNT Composite Materials, during Continuing Education Programme on Composite Materials for Naval Applications (14th-18th Nov.2011) on 18th November 2011 at NSTL Vishakapatnam.
68. Guest lecture delivered on Finite Element Modeling and Analysis, during Continuing Education Programme on Computational Techniques In Material Science 5th December 2011, DMRL, Hyderabad
69. Guest lecture delivered on Consultancy & Fund Raising and Research Methodology during Faculty Development Program for New Teachers organized from 2nd to 6th Jan.2012 on 03rd Jan.2012 at CBIT, Hyderabad
70. Guest lecture delivered on Engineering Research Methodologies at A Two Day National Workshop on Research opportunities in Computer Science and Information technology during 27-28th January 2012 organized by Dept. of IT, CBIT, Hyderabad
71. Guest lecture delivered on Engineering Research Design during short term course on Engineering Research Methodology (ERM) organized from 2nd to 4th February 2012 on 3rd 2012 at College of Engineering, O.U, Hyderabad.
72. Delivered keynote address on ANSYS a Tool for Electrical Engineering FEM Solutions, A Two Day National Level workshop on Soft techniques for FEM for Electrical engineering Research Applications during 16th – 17th Feb. 2012 organized by EEE Dept. of CBIT.
73. Delivered expert lecture on Engineering Research Design-A case study on Carbon epoxy and carbon CNT with epoxy



composites and their characteristics at a three week refresher course on Research Methodology on 22.06.2012 at JNTUH CE Nachupally, Karimnagar, AP, India

74. Delivered keynote lecture on research methodology and design at one day FDP on research methodology on 26th August 2012, School of Engineering SVS Group Institutions, Hanamkonda, Warangal, AP.
75. Resource person and delivered a lecture on Finite Element Methods Applied to Engineering Design in a Two Day Workshop on Applications of FEM from 31st Aug.2012 to 1st Sept.2012, organized by UGC Academic Staff college, JNTUH, on 01.09.2012
76. Delivered a keynote lecture on advances in CAD/ CAM and Finite Element Simulations at One Day National Level Workshop on "Advances in CAD/ CAM and Finite Element Simulations", 12th October 2012, at Nishitha College of Engineering and Technology, R.R District, Hyderabad.
77. Delivered a lecture on Structural and Thermal Systems Design and Analysis on 22nd November 2012 in a Two Day Workshop on Applications of FEM organized by UGC Academic Staff college, JNTUH
78. Delivered a talk on 11th Dec.2012 on advances in Finite Element Applications in Dynamics at Continuing Education Programme (CEP) on "Computer Aided Engineering for EW Systems for DRDO Scientists", from 10th -14th December 2012, at DLRL, Hyderabad
79. Delivered an Expert lecture on Mechanical Engineering and its applications at Shreyas Institute of Technology, Hyderabad on 19.02.2013
80. Delivered a talk on Advances in CAD/CAM and finite element simulations at Gudlavalleru Engineering college on 14th March 2013.
81. Delivered an expert talk on Research methodology and sponsored project grants with UGC/DST/DRDO to the faculty of Gudlavalleru Engineering College on 14th March 2013.
82. Delivered an expert lecture on "Technology Assistance from R&D labs & other Institutions" & on "Non-Conventional Energy Resources and Green Industries at a Two-week (April 22 to May 4, 2013) Faculty Development Programme in Entrepreneurship, Organized by Entrepreneurship Development Cell of MGIT on April 29th, 2013
83. Expert lecture delivered on geometric modeling and their relevance to optimization, FDP on Metrology and Optimization at Mechanical Engineering dept. of College of Engineering Osmania University, Hyderabad on 27th June 2013.
84. Delivered an expert talk on FE Applications to Real Time Projects – I & II, FDP on "Finite Element Applications in Civil Engineering on 14th June 2013, Organized by the Department of Civil Engineering, VNRVJiet from 03rd June - 15th June 2013 sponsored by AICTE.
85. Delivered a talk on Acoustic modeling and Noise reduction in blowers using Composite Materials on 10th November at RR Industries at Bharathnagar, Hyderabad
86. Delivered an invited talk on Dynamic analysis of shelters, blowers, propellers and flanges using FEA on 3rd Jan.2014 at Two Day National Workshop On Vibrations and Health Monitoring of Engineering Infrastructures (VHMEI-2014), 3rd – 4th, January 2014 (Sponsored by TEQIP-II), Organized by Department of Mechanical Engineering, Andhra University College of Engineering(A) Andhra University, Visakhapatnam-530003, AP, INDIA
87. Delivered an invited talk on Engineering Research Design and Methodology on 4th Jan. 2014 at two day National workshop on "Research Methodology for Advanced Areas in Engineering & Technology", St. Martin's Engineering College, Hyderabad, India
88. Delivered an expert talk on research consultancy and innovation on 10th Jan.2014 at 5 day workshop on Teaching



- learning and research by young faculty at CBIT, Hyderabad
89. Delivered keynote lecture on Fracture analysis of carbon epoxy and carbon CNT Composites using Finite Element method, at International workshop organized by CED of CBIT on 14th March 2014
  90. Delivered an invited talk on Mechatronics System Design on 6th May 2014 at ISTE-SRM STTP on Mechatronics, 5th may to 10th May 2014 Organized by Mechanical Engg. Dept. of MGIT Hyderabad.
  91. Delivered an invited talk on Welding Simulations using FEA on 07th May 2014 at one week workshop on Thermal Aspects in Manufacturing Process (2nd to 7th May 2014), sponsored by SAP-UGC Project organized by Mechanical Engg. Dept. of JNTU Hyderabad
  92. Delivered a keynote address on Concepts and development of products through Surface and Solid modeling techniques on 23rd June 2014 at ISTE –SRM STTP on “Computer Aided Design (T&P)”, 23th- 28th June 2014, Department of Mechanical Engineering, Babasaheb Naik College of Engineering, Pusad, Maharastra.
  93. Delivered an expert talk on Finite element modeling and analysis techniques applied to static and dynamic behavior of structures on 23rd June 2014 at ISTE –SRM STTP on “Computer Aided Design (T&P)”, 23th- 28th June 2014, Department of Mechanical Engineering, Babasaheb Naik College of Engineering, Pusad, Maharastra.
  94. Delivered an keynote address on Finite element methods and application of FEM in different fields of engineering on 10th July 2014 at Department of Mechanical Engineering, Geethanjali College of Engineering and Technology, Keeasara, Hyderabad
  95. Delivered keynote address on basic fundamentals and applications of CFD in Electrical Engineering, during one day workshop on “Computational Fluid Dynamics to Electrical Engineering” organized by EEE Department CBIT, at CBIT, Hyderabad on 29.10.2014.
  96. Delivered keynote address on Applications of Solidworks for automotive and aerospace applications, at solidworks innovation day 2015 conference, at Logical solutions, Hyderabad on 11th Nov.2014
  97. Delivered an Expert lecture on 24th Dec..2014 on Formulation of 1-D, 2-D elements – axial, truss, beam, in-plane elements., Two Weeks AICTE sponsored Faculty Development Program on “ Finite Element Method and its Applications” during 22nd Dec, 2014 to 3rd Jan, 2015 organised by Department of Mechanical Engineering, Jayamukhi Institute of Technological Sciences, Narsampet, Warangal, Telangana
  98. Delivered an Expert lecture on 31st Jan.2015 on Formulation of Dynamic analysis using FEA, on “Workshop on Finite Element Formulations in Civil Engineering Applications” during 30th -31st Jan., 2015, organised by Department of Civil Engineering, CVR College of Engineering, UGC Autonomous Institution - Affiliated to JNTUH, (Accredited by NBA, AICTE), Vastunagar, Mangalpalli(V), Ibrahimpatan (M), R.R.Dist–501 510.
  99. Delivered an Expert lecture on Virtual work and Potential Energy basis of FEM with one dimensional problems: bar, truss, beam elements; convergence criteria, A Two-day Faculty Development Programme on Finite Element Analysis under TEQIP-II S.C-1.1 20th & 21st February 2015 Organized by Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad – 500 100
  100. Delivered an Expert lecture on Finite Element formulation of two-dimensional elements: triangular, quadrilateral and axi-symmetric elements, numerical integration and Gaussian quadrature, A Two-day Faculty Development Programme on Finite Element Analysis under

TEQIP-II S.C-1.1 20th & 21st February 2015 Organized by Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad – 500 100

101. Delivered an Expert lecture on Dynamic analysis, lumped and consistent masses, modal analysis, frequency and time-response methods, applications, A Two-day Faculty Development Programme on Finite Element Analysis under TEQIP-II S.C-1.1 20th & 21st February 2015 Organized by Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad – 500 100
102. Delivered an Expert lecture on Heat transfer analysis: formulation of steady and unsteady state conduction problems with various boundary conditions, A Two-day Faculty Development Programme on Finite Element Analysis under TEQIP-II S.C-1.1 20th & 21st February 2015 Organized by Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad – 500 100
103. Delivered an Expert lecture on Finite Element modeling techniques, quality checks, solvers and requirements, case studies, A Two-day Faculty Development Programme on Finite Element Analysis under TEQIP-II S.C-1.1 20th & 21st February 2015 Organized by Department of Mechanical Engineering Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad – 500 100.
104. Delivered a talk on Modeling and Meshing requirements for FEA and CFD solvers, 12th May 2015, at Solidworks User Conference, Hyderabad
105. Delivered a key note talk on Advances in Finite Element Modeling and Analysis in 5day FDP on Finite element analysis and practices through ANSYS on 30th November 2015 at Department of Mechanical Engineering, Geethanjali College of Engineering and Technology, Keeasara, Hyderabad
106. Delivered a keynote lecture on Design and development of ship propellers and ship blowers made of composite materials for the improvement of cavitation inception speed and reduction of noise using CFD and FEA at a seminar IDEASS Organized by Ansys Software Private Ltd and Entuple Technologies, on ANSYS Solutions for Advanced Applications in Defense for scientists from DRDO at Hotel Novotel, Near Aiport, Hyderabad on 3rd December 2015.
107. Delivered a key note talk on Use of CAD tools for the Computer Aided Engineering Drawing during Faculty Development Programme on Computer Aided Engineering Drawing on 13th June 2016, at dept. of Aeronautical and Mechanical Engineering dept.s of Institute of Aeronautical Engineering (A), Dundigul, Hyderabad-43, Telangana state.
108. Delivered a key note talk on Introduction to FEM & Dynamic analysis of structural problems, A Two - Day National Workshop On “Advanced Finite Element Applications in Design” SEPTEMBER 1st, 2016 Under Technical Education Quality Improvement Programme (TEQIP)-II at Sree Vidyanikethan Engineering College, Sree Sainath Nagar, Tirupati – 517 102, A.P
109. Delivered a talk on Advanced modeling and formulations on transient and random vibrations, A Two - Day National Workshop On “Advanced Finite Element Applications in Design” SEPTEMBER 1st, 2016 Under Technical Education Quality Improvement Programme (TEQIP)-II at Sree Vidyanikethan Engineering College, Sree Sainath Nagar, Tirupati – 517 102, A.P
110. Delivered a talk on CAD/CAM and FEA Translators and Simulations, 8th February 2017 at Department of Mechanical Engineering, Nishitha Engineering College, Hyderabad
111. Delivered a talk on CFD Analysis of Pumpjet Propulsion on 31st March 2017 at RR Industries

112. Delivered a talk on Manufacturing Simulations for the Plastic moulds, 17th Sept. 2017 at IIE,Hyderabad
113. Delivered a talk on Cavitation Inception in Composite Ship Propellers on 22nd December 2017 at ESCI, Hyderabad
114. Delivered a talk on Progress on Pump with pivot bearing on 23rd March 2018 at Indo-American Artificial Heart Program (IAAHP), Lumbini Lakeview,Hyderabad
115. Delivered a talk on Capabilities of CBIT facilities- focusing on potential contributions to this project on 16th June 2018, IAAHP Symposium, Indo-American Artificial Heart Program (IAAHP), Hotel Tabard Inn; 1739 N Street, NW; Washington, DC 20036
116. Delivered a key note talk on Structural and thermal Analysis using ANSYS FEA software, A Five - Day National Workshop On "Ansys FE Applications in Design" November 12th 2018 at KITS Warangal
117. Delivered a Talk on Invention, Innovation startup and Incubation, A Five day ICT programme at CBIT Hyderabad on 27th November 2018.
118. Delivered a talk on HQ curves on the Design of LVD, on 13th June 2018 at the meeting of Consortium of Indo-American User Meet at Washington Hilton,USA
119. Delivered a talk on the Development of Centrifugal Blood Pump, Series of deliberations on the development of LVADs by Prof. Harvey Borovetz and Dr. Salim Olia, UPMC, USA, Indo-American Artificial Heart Program (IAAHP), 3rd - 8th, January 2019, Organised by Share India, Lumbini Lakeview, Hyderabad
120. Delivered a Talk on Finite Element Techniques in Engineering applications and softwarers ANSYS usage at Mechanical Engineering dept. of Indur Institute of Engineering and Technology Siddipet on 25th Feb.2019
121. Delivered a Talk on Mechanical and tribological characterization of bio composite material reinforced with poultry feather fiber at 5day workshop on Experimental methods on 16.04.2019 at Mechanical Engineering dept. of Osmania University.
122. Delivered a talk on Computer Aided Design and Engineering-Overview in 3day Faculty development programme at Geethanjali Institute of Engineering and Technology,Hyderabad on 11th May2019
123. Delivered a talk on Design of LVD using Ansys simulations, on 14th June 2020 at the meeting of Consortium of Indo-American User Meet at Washington Hilton,USA
124. Delivered a talk on Engineering simulations on Artificial Organs, on 17th June 2020 at UPMC, USA
125. Delivered a talk on CFD simulations on Centrifugal Pump for the effective LVD, 28th June 2019 at Hilton San Francisco, USA - from 26th to 29th June 2019.
126. Delivered a talk on Flow visualization of Blood while pumping throug LVD using CFD and High Speed Cameras, 29th June 2019 at Hilton San Francisco, USA - from 26th to 29th June 2019.
127. Delivered on Progress-to-date: Pump Design (Fluid Dynamics), CFD Fabrication, Hemodynamic Testing, Hemolysis Testing, et al. on 29th June 2019, 4th International Symposium of the IAAHP Indo-American Artificial Heart Program, 251 Post Street, Suite 510, San Francisco, CA.
128. Delivered a talk on Solution of Equilibrium Equations in Dynamic Analysis on 12th September, Training programme on "Finite Element Methods for Analysis and Design of Hydraulic Structures using ANSYS" during 02-14 September, 2019 at ESCI, Gachibowli, Hyderabad
129. Delivered a talk on Solution of Equilibrium Equations in Dynamic Analysis on 14th November, Training programme on "Finite Element Methods for Analysis and Design of Hydraulic Structures using ANSYS" during 04-16 November, 2019 at ESCI campus, Gachibowli, Hyderabad
130. Delivered a talk on "Practical approach to FEA in



Design” in CEP course on ‘Advances in Product Design and Engineering’ on 28th Jan 2020 , at Govt. of India Ministry of Defense Research & Dev. Orgn. Defense Research & Dev. Laboratory, Kanchanbagh, Hyderabad - 500 058

131. Delivered a talk on The Progress of LVAD at Mechanical engineering department of CBIT on 29th Jan.2020, Indo American Artificial Heart Program (IAAHP-25th - 29th January, 2020) at Share India, Lumbini Lakeview,Hyderabad
132. Delivered a talk on present research and development on Rotaflow blood Pump and drive unit, Artificial Heart Meeting, 6th March 2020 at Artificial Heart Research Project, AIG Hospital, Gachibowli,Hyderabad
133. Delivered a keynote on The performance of Dynamic Analysis of Systems using Finite Element Analysis on 11th March 2020, A one week Faculty Development Programme on Advanced Finite Element Methods and its Engineering Applications - Hands on Sessions, 09th– 14th March 2020, Organized by Department of Mechanical Engineering, UCEK (A), JNTUK, Kakinada, Andhra Pradesh
134. Delivered a talk on Practical Approach to FEA in the Design and Manufacturing Simulations, on 17th June 2020 at One Week National Level Online Faculty Development Programme on “Industry 4.0 - A Vision of Design and Manufacturing”, Organised by Dept. Of Mechanical Engineering of CBIT, from 16th to 21st June 2020,Hyderabad,Telangana state,India
135. Delivered a talk on Practical Approach to FEA in Design &Manufacturing Techniques, on 23rd June 2020, One week FDP on Advancements in Manufacturing and Optimization Techniques (AMOT-2020), Organised by Dept. Of Mechanical Engineering of Jayamukhi Institute of Technological Sciences, from 22nd to 26th June 2020,Warangal,Telangana state,India
136. Delivered a talk on Ansys applications in Steady state and Transient Heat Transfer Analysis on 4th Aug.2020 as a resource person for AICTE Sponsored One Week Online Short Term Training Programme on “Finite Element Analysis with Ansys Mechanical APDL” Organised by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu, conducted during the period of 28/07/2020 to 05/08/2020
137. Delivered a talk on Bio Composite Material Reinforced with Poultry Feather on Fiber on 19th October 2020 at One Week Online AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on Molecular Manufacturing(19th – 23rd October 2020), Organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology(A),Hyderabad
138. Delivered a talk on Machinability of Metal Matrix Composites using Numerical and Experimental Techniques on 20th October 2020 at One Week Online AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on Molecular Manufacturing(19th – 23rd October 2020), Organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology(A),Hyderabad
139. Delivered a talk on Patent Drafting on 24th Nov.2020 at A Two week online AICTE Sponsored FDP organised by Mechanical Engineering, Department Chaitanya Bharathi Institute of Technology, Hyderabad On Research Methodologies and Statistical Data Analysis, Phase I (16 th to 28 th November 2020)
140. Delivered a talk on Creating Research profile and Collaborations on 27th Nov.2020 at A Two week online AICTE Sponsored FDP organised by Mechanical Engineering, Department Chaitanya Bharathi Institute of Technology, Hyderabad On Research Methodologies and Statistical Data Analysis, Phase I (16 th to 28 th November



2020)

141. Delivered a talk on Creating Research profile and Collaborations on 16th Dec.2020 at A Two week online AICTE Sponsored FDP organised by Mechanical Engineering, Department Chaitanya Bharathi Institute of Technology, Hyderabad On Research Methodologies and Statistical Data Analysis, Phase II (14 th to 26 th December 2020)
142. Delivered a talk on Patent Writing on 18th Dec.2020 at A Two week online AICTE Sponsored FDP organised by Mechanical Engineering, Department Chaitanya Bharathi Institute of Technology, Hyderabad On Research Methodologies and Statistical Data Analysis, Phase II (14 th to 26 th December 2020)
143. Delivered a talk on Role of Finite Elements in Research on 24th Dec.2020 at AICTE Margadarshan Online FDP on Outcome Based Education and Research Methodologies, 21-27 Dec.2020 Sponsored by AICTE, organised by Gokaraju Rangaraju Institute of Engineering(Autonomous), Hyderabad, Telangana
144. Delivered a talk on Finite Elements in Research on 26th Dec.2020 at A Two week online AICTE Sponsored FDP organised by Mechanical Engineering, Department Chaitanya Bharathi Institute of Technology, Hyderabad On Research Methodologies and Statistical Data Analysis, Phase II (14 th to 26 th December 2020)
145. Delivered a talk on Overview on FEA: its usefulness in solving real time problems on 27.12.2021, at AICTE-ISTE Refresher Program on FEA for Solving Real time Problems-27.12.2021 to 01.01.2022, organized by Dept. of Mechanical Engineering, NBKR Institute of Science & Technology, Vidyanagar-524413, SPSR Nellore District, Andhra Pradesh, India.
146. Delivered a talk on Overview on Statics and Modal Analysis using Finite Element Analysis on 28.12.21 at AICTE-ISTE Refresher Program on FEA for Solving Real time Problems-27.12.2021 to 01.01.2022, organized by Dept. of Mechanical Engineering, NBKR Institute of Science & Technology, Vidyanagar-524413, SPSR Nellore District, Andhra Pradesh, India.
147. Delivered talk on AI in Robotics on 31.01.2024 at One Week National Level Faculty Development Program on Multi-Disciplinary Research Trends in Artificial Intelligence and Data Science 29 January - 02 February 2024, organized by Department of Artificial Intelligence and Data Science in Association with IEEE Computer Society of Hyderabad Chapter.

#### BOOKS EDITED: 13

1. Proceedings of 14TH ISME conference, Feb 1998
2. Computer Aided Design and Analysis, Aug. 1999
3. Proceedings of ISTE-AICTE STTP on CADA, Aug. 1999
4. Proceedings summer school on Finite Element Method and its applications in Civil, Chemical and Mechanical Engineering, May 11-27, 2000
5. Proceedings of First International Conference on computational Methods in Engineering and Sciences (ICCMES-09), Jan. 8-10th, 2009, ISBN:978-81-7800-189-0, BS Publications
6. National conference proceedings, 2012
7. Proceedings of National Conference on Advances in Mechanical Engineering & renewable energy (AMERE 2013), 25-26 march 2013
8. Proceedings of FDP on Finite Element Analysis through ANSYS, March 2014.
9. Thermal and air flow analysis of shelters using CFD, ISBN-13:978-3-659-64838-0, ISBN-10: 3659648388, EAN: 9783659648380, LAP LAMBERT Academic Publishing

No. of Books/Chapter Published with details

- House. Website: <https://www.lap-publishing.com>,05-12-2014.no. of pages:60
10. Simulation of TIG Welding Process, ISBN-13:978-3-659-66574-5, ISBN-10: 3659665746, EAN: 9783659665745, LAP LAMBERT Academic Publishing House. Website: <https://www.lap-publishing.com>,18-12-2014. No of pages:96
  11. Proceedings of National Conference on Operation Research and Management A strategy Towards Competitive advantage(NACORM 20136), 28-29 January 2016,ISBN:978 93 83038 37 4
  12. Design and Development of Composite Blower for Low Noise Using FEM, Publisher: Lap Lambert Academic Publishing, ISBN: 978-613-7-38078-9, Feb.2018.
  13. Book Chapter "SiC and Al<sub>2</sub>O<sub>3</sub> Reinforced Friction Stir welded joint of Aluminium Alloy 6061", book titled of Strengthening and Joining Plastic Deformation Published by Springer, ISBN 978-13-0377- 7(P), ISSN 978-981-13-0378-4Published on June 06, 2018.

**Refresher courses/FDPs/Workshops organized: 30**

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (**Attended and/or Organized**).

1. Computer Aided Design & Practice, Feb 10th -13th 1992, For Engineers
2. Numerical Methods in Engineering, Jan 5th - 21st ,1993,For Engineering Teachers
3. NISA Finite Element Analysis Theory and Practice, For Engineers, Mar 10th - 18th , 1994 (Jointly with Onword Technologies)
4. Computer Aided Manufacturing organized Jointly with CAD/CAM Infotec., May 10th - 25th ,1994 for industry personal.
5. MasterCAM Theory and Practice, Jan 1st - 12th ,1995 For Industry
6. Finite Element Analysis Theory and Practice, Feb 6th - 10th,1996 For Engineers
7. Numerical Methods and Computer Applications, in Engineering and Science, Jan 1st -15th,1997,For Engineers and Science Faculty(Jointly with ISTE)
8. Computer Aided Engineering and Analysis Tools May 2nd - 8th,1997, For Engineers
9. Geometric Modelling of part and assemblies through Proengineer software, Jan 1st -14th , 1998 For industrial persons
10. Linear and Non Linear Finite Elements (ANSYS), May 28th - June 6th, 1998 For industry and institute
11. Finite Element and Geometric Modelling using Ansys R5.4, CAEFEM, ADINA and NISA Packages, Jan 1st - 12th,1999For industry and institute
12. AICTE Sponsored course on Computer Aided Design and Analysis, May 10th -15th 1999 For industry and institute
13. Effective usage of Finite Element Analysis for practicing Engrs, June 1st - 6th 1999for industry
14. Computer Aided Design and Analysis (Jointly with AICTE-ISTE), Aug 12th - 27th 1999 For industry and institute
15. Effective usage of I-DEAS, ANSYS 5.5 and ADAMS (with NIIT), Oct 25th - 30th 1999 For institutes
16. Use of CAE Tools, CTTC Bhuvaneshwar, Feb 5 - 12th , 2000For industries
17. FEAMAP and CAEFEM 2001, Mar 6 - 11th ,2001 For DRDO Scientists at DRDO R&D, Pune,
18. Finite Element Modeling and usage of CAE Tools, Jan 5 - 11, 2002 For Faculty and Students, Vizag,
19. Workshop on Finite Element Modelling and Analysis, Feb.14-16,2003, at Swami Ramananda Tirtha Institute of Science and Technology, Nalgonda., 2003For Faculty and students
20. Coordinator for UGC sponsored 3-Week Refresher Course on "Advanced Production Systems",May 19th to June 7th , 2003 at Academic Staff college,JNTU,Kukatpally, Hyderabad-500 072. 2003 For Faculty

21. Finite Element Techniques and Practices, At Directorate of Engg., D.R.D.L,Hyderabad. July 21 to 26, 2003 For Scientists
22. A 5 days training programme on Finite element analysis and practices through Ansys at Vizag June.18th to 22, 2007 For Scientists of NSTL and BHPV
23. Organized a workshop on Advances in Finite element methods and practices through ANSYS FEA software for 35 Scientists June 28th to 3rd July 2010 NSTL Scientists
24. One day Orientation Programme on Intellectual property Rights by Ashikari Intellectual Property Consultants Pvt. Ltd., Hyderabad on 09-02-2011 at CBIT
25. One day workshop on 'Mathematica' at CBIT seminar hall on 15-02-2011 for the faculty of all departments.
26. A Two day workshop " ROBO – OPUS 2011". A national level Robotics workshop, Organized by Engg. Dept. CBIT during 25th – 26th Feb'2011 in collaboration with Banaras Hindu University & Robosapiens at CBIT
27. organized one day public awareness programme on Nuclear Energy and Atomic Minerals Exploration on 3rd Mar' 2011 in association with Department of Atomic Energy, Hyderabad
28. Organized a 2 Week FDP as a Coordinator, AICTE sponsored (received grant of Rs. 7.0 Lakhs) Faculty Development Programme on Finite Element Analysis and Practices through Ansys during March 17th to 29th, 2014.
29. Organised a Five Day in house training on the The approach to use and develop various Parts of Artificial Heart, 12th to 17th Sept.2016 for Medical Practitioners, Scientists, Faculty and Doctors at Alankritha, Hyderabad
30. Organised a two day workshop on 3D Printing of LVDs with different Techniques from 26th to 27th , Nov.2018, for researchers and medical practitioners, Hyderabad

Details of Journal Publications/  
Conferences (National and  
International)

International Journals: 188 International Conferences: 74  
National Journals :15 National Conferences :71

**International Journal from the year 2017**

1. R.Uday Kumar, P.Ravinder Reddy, A.V.SitaRamaraju, Role of Viscosity in Hydro-forming Process, Materials Today: Proceedings ,v4, pp.790–798, ISSN: 2214-7853, 2017, Elsevier, SJR (SCImago Journal Rank): 0.341, Quartile: Q3, SNIP: 0.657
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#### **International /National Conferences from the year 2017**

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