GUDLAVALLERU ENGINEERING COLLEGE

Seshadri Rao Knowledge Village, Gudlavalleru

Department Of Mechanical Engineering

Date: **26.09.2017**

CIRCULAR

Faculty members are cordially invited to attend Guest Lecture on ""**Computational Techniques for Mechanical Engineering"** on **26.09.2017 at 9.30** AM in Mechanical Engineering Department A/C Seminar Hall (N-216).

H.M.E

12

Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, GUDLAVALLERU

Department of Mechanical Engineering

Date: 25-09-2017.

CIRCULAR

A Guest lecture on **"Computational Techniques for Mechanical Engineers"** by **Dr. Rayapati Subbarao**, Assistant Professor, National Institute of Technical Teacher's Training & Research (NITTTR), Kolkata is arranged on 26-09-2017 for final year mechanical students. All the students are informed to attend Programme.

Venue: A/C Seminar Hall (N-216)

Time: 02:30 PM

25/9
H.M.E.

Copy to: Class rooms/Notice boards

1) 25/9/17
2)

IV - A
IV - B
IV - C

(13)

IE (I) STUDENT CHAPTER

In association with

MECHANICAL ENGINEERING ASSOCIATION

Is Organising

Guest Lecture on Computational Techniques for Mechanical Engineers

on

26th September 2017, 02.30 PM

Department of Mechanical Engineering

Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakindad)

Seshadri Rao Knowledge Village

GUDLAVALLERU - 521 356

Krishna Dist. A.P.

Programme Schedule

- ⇨ Welcoming Guests
- ⇨ Introduction to Speaker
- ⇨ Lecture on Computational Techniques for Mechanical Engineers
- ⇨ Vote of Thanks

Guest Speaker

Dr. Rayapati Subba Rao

Assistant Professor, Department of Mechanical Engineering, NITTTR Kolkata

Coordinators

Sri L. Ramesh. *Asst. Prof.,*
Sri.Johny Shaida Shiak. *Asst. Prof,*

Venue

ME Seminar Hall
(N – 216)

CURRICULUM VITAE

Dr. Rayapati Subbarao
Assistant Professor
Deptt of Mech Engg
NITTTR Kolkata
Kolkata 700106 India

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+91-33-66251974

EDUCATION

Ph.D (Mechanical Engineering) from IIT Madras in 2014
M.Tech (Thermal Engineering) from IIT Delhi in 2006
B.Tech (Mechanical Engineering) from Nagarjuna University in 1996

EXPERIENCE SUMMARY

- **13 years of experience in Teaching, Research & Development and Training.**

S.No	Experience (From To)	Span	Designation	Organization with address
1	Nov 1996- May 1997	7 months	Q.C In-charge	Sai Santosh Electricals Private Limited, Hyderabad, India.
2	June 1997-Apr 2000	3 years	Project Associate	IIT Delhi, New Delhi, India.
3	Oct 2000-Aug 2001	1 year	Software Programmer	HiTec Information Technologies Inc., VA, USA.
4	Aug 2001-Jul 2004	3 years	Lecturer	Bhagwant Institute of Technology, Muzaffarnagar, U.P, India.
5	June 2006-Apr 2009	3 years	Assistant Professor (Senior)	VIT University, Vellore, India.
6	Feb 2014 – Jul 2014	6 months	Scholar	IIT Madras, Chennai.
7	Aug 2014- Jul 2015	1 year	Associate Professor	KL University, Vijayawada, India.
8	Jul 2015- Till date	-	Assistant Professor	National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata.

ACADEMIC RECORD

Degree	Year of passing	Class and marks secured	University/Institute	Subjects	Remarks
S.S.C (10th)	1989	I, 87.66%	Board of Secondary Education, A.P	Mathematics, Sciences, S.S, English, Hindi and Telugu	One among top 10 in the district.
Intermediate (10+2)	1991	I, 77 %	Board of Intermediate Education, A.P	Mathematics, Physics and Chemistry	-
B.Tech (10+2+4)	1996	I, 65.5 %	Nagarjuna University, A.P.	Mechanical Engineering	-
M.Tech (PG)	2006	8.25 CGPA	Indian Institute of Technology Delhi	Thermal Engineering	Topper for III and IV semesters with SGPA 10.
Ph.D (Doctorate)	**2014**	**9.25 CGPA**	**Indian Institute of Technology Madras**	**Mechanical Engineering**	-

PUBLICATIONS

JOURNALS:

1) '*Mathematical modelling of incorporated Physico-Electrochemcial processes and polarization distinctiveness in Solid Oxide Fuel Cells*', V.U.Senthil Vadivel, Rayapati Subbarao, P.M.V.Subbarao, **Advances in modelling and analysis. A, general mathematical and computer tools**, 2006, vol.7(1), pp. 78-89 ***(Scopus indexed)***.
2) '*Performance Analysis of Hybrid Solid Oxide Fuel Cell – Gas Turbine Power Generating System*' Rayapati Subbarao, V.U.Senthil Vadivel, P.M.V.Subbarao, ***Journal of Institution of Engineers***, 2009, vol.90, pp. 1-5.***(Impact Factor 0.633)***
3) '*Experimental investigation and performance evaluation of DI Diesel engine fueled by waste oil-diesel mixture in emulsion with water*', K.Nantha Gopal and Rayapati Subbarao, ***Journal of Thermal Science***, 2009,vol. 13(3), pp. 83-89.***(Scopus indexed, SCI, Impact Factor 1.22)***
4) '*Experimental investigation on the utilization of pond ash for pavement blocks*', A.Sofi, Rayapati Subbarao, M.Venkatabilash, V.Uvaise Ahmed and B.Bharat, Journal of Civil Engineering and Construction Review, April 2009, pp.72-79.
5) '*Experimental Investigation on the Performance and Emission Characteristics of Two-Stroke Spark Ignition Engine with Hydrogen as Supplementary Fuel'*, K.Nantha Gopal, Rayapati Subbarao, R.Natarajan, Sanjay Jain, Fulender K and Ram Vinoy K, ***Journal on Future Engineering & Technology***, 2009, vol.4(4), pp. 22-28.***(Impact Factor 0.402)***
6) '*Thermodynamic analysis on Diesel Engine Integrated with PCM Based Energy Storage System*', K.Nantha Gopal, Rayapati Subbarao, V. Pandiyarajan, R. Velraj, ***Journal of Thermodynamics***, 2010, vol. 13(1), pp. 15-21.***(Scopus indexed, Impact Factor 0.682)***
7) '*Hydrogen enriched Compressed Natural Gas (HCNG) - A Futuristic fuel for internal combustion engines'*, K.Nantha Gopal, Rayapati Subbarao, T.Elango, P.Bhaskar and K.Annamalai, ***Journal of Thermal Science***, 2011, vol. 15(4), pp. 1145-1154.***(Scopus indexed, SCI, Impact Factor 1.22)***
8) '*Effect of axial gap on the aerodynamics of a single stage turbine*', Rayapati Subbarao and M.Govardhan, ***Journal of Earth Sciences and Engineering***, 2012, vol. 1, pp. 371-377.***(Impact Factor 0.15)***
9) '*Effect of axial spacing between the components on the performance of a counter rotating turbine*', Rayapati Subbarao and M.Govardhan, ***International Journal of Fluid Machinery and Systems***, 2013, vol. 6(4), pp. 170-176. ***(Scopus indexed, Impact Factor 0.831)***
10) *'Effect of speed ratio on the performance and flow field of a counter rotating turbine'*, Rayapati Subbarao and M.Govardhan, ***Journal of Energy Procedia***, 2014, vol. 54, pp. 580-592. ***(Scopus indexed, Impact Factor 0.54).***
11) *'Performance and emissions analysis of a diesel engine using various bio-fuels'*, A.H.Teja and Rayapati Subbarao and Chava Rajesh, ***Applied Mechanics and Materials*** Vols. 813-814 (2015) pp 851-856 ***(Scopus indexed, Impact Factor 0.15).***
12) *'Experimental studies on diesel engine with piston crown modification using an optimum alternative fuel'*, A.H.Teja and Rayapati Subbarao, ***Applied Mechanics and Materials*** Vols. 813-814 (2015) pp 830-835 ***(Scopus indexed, Impact Factor 0.15).***
13) *'Analysis of a gas turbine plant suitable for distributed power generation along with heating, refrigeration and air conditioning'*, Rayapati Subbarao and K.Saisarat, **Journal of Distribution & Alternative Energy, Taylor & Francis press, *(Scopus indexed, Impact Factor 0.16)*, Accepted,** 2016.
14) Influence of Heat Treatment on Mechanical and Micro Structural Properties of Titanium Alloys for Enhanced Applications, K.Saisarat, Rayapati Subbarao, I.D.Murthy, Ravi Gujjula, **Procedia Materials Today, Elsevier press *(Scopus indexed)* Accepted, 2016.**
15) Investigations on the Performance of Various Bio-Fuels along with Low Thermal Conductivity Piston Crown in a Diesel Engine, Rayapati Subbarao, A.H.Teja, **Lecture Notes in Mechanical Engineering, Springer publishers *(Scopus indexed)*, Accepted, 2016**.
16) *'Computational studies on the effect of speed ratio and stagger angle in a counter rotating turbine with respect to flow field and performance'*, Rayapati Subbarao and M.Govardhan, **Lecture Notes in Mechanical Engineering, Springer publishers *(Scopus indexed)*, Accepted, 2016**.

Under Review:

17) *'Studies on the effect of stagger angle in a counter rotating turbine with respect to flow field and performance'*, Rayapati Subbarao and M.Govardhan, ***International Journal of Turbo and Jet Engines, Communicated***, 2015.
18) *'Computational and experimental studies on the flow arrangement over flat plates of different configurations'* Rayapati Subbarao and K.Saisarat, ***Sadhana - Academy Proceedings in Engineering Science, SADH-D-16-01534, Communicated***, 2016.

INTERNATIONAL CONFERENCES:

1) '*Mass Flow Measurement in Buoyancy Induced Flow through a vertical Tube*' Sangeeta Kohli, M.R.Ravi, R.Subbarao, Proceedings of the 5th ***ASME-ISHMT*** Heat & Mass Transfer Conference, Calcutta, 2002, pp. 796-801. (ISBN- 0070474435 9780070474437)
2) '*Performance characteristics of Solid Oxide Fuel Cell and its upstream fuel processing options*', Senthil Vadivel, Rayapati Subbarao, P.M.V.Subbarao, Proceedings of the International conference on Sustainable Energy Development, New Delhi, 2006, pp. 256-265.
3) '*Thermodynamic modelling of Solid Oxide Fuel Cell – Gas Turbine power plant*', Rayapati Subbarao, Senthil Vadivel, P.M.V.Subbarao, Proceedings of the International Congress on Renewable Energy (*ICORE*), Hyderabad, 2006, pp. 531-538. (ISBN: 81-7764-756-3)
4) '*Mathematical modeling of incorporated Physico-Electrochemcial processes and polarization distinctiveness in Solid Oxide Fuel Cells*', V.U.Senthil Vadivel, Rayapati Subbarao, P.M.V.Subbarao, Proceedings of the International Conference on Modelling and Simulation, Kuala Lumpur, pp. 771-778, 2006.
5) '*Performance Analysis of Hybrid Solid Oxide Fuel Cell – Gas Turbine Power Generating System*' Rayapati Subbarao, V.U.Senthil Vadivel, P.M.V.Subbarao, Proceedings of the ***World Renewable Energy Congress - IX***, Italy, 2006, FC-41. (ISBN : 008044671X 9780080446714)
6) '*Mathematical Modelling of Activation Overpotential in High Temperature Fuel Cells*', Rayapati Subbarao, V.U.Senthil Vadivel, P.M.V.Subbarao, Proceedings of the 3rd ***BSME-ASME*** International Conference on Thermal Engineering, 2006, Dhaka, Bangladesh,BA-144.
7) '*Effect of axial gap on the aerodynamics of a single stage turbine*', Rayapati Subbarao and M.Govardhan, Proceedings of the International Conference on Recent Advances & Challenges in Energy, India, 2012, MS-48.
8) '*Effect of axial gap on the aerodynamics of 1 and 1.5 stage turbines*', Rayapati Subbarao and M.Govardhan, Proceedings of the 15th International Conference on Applied Mechanics and Mechanical Engineering, **AMME-15**, Egypt, 2012, 73.
9) '*Effect of axial spacing between the components on the performance of a counter rotating turbine*', Rayapati Subbarao and M.Govardhan, Proceedings of International Symposium on Fluid Mechanics and Fluid Engineering, **ISFMFE**, Korea, 2012,1325.
10) *'Effect of speed ratio on the performance and flow field of a counter rotating turbine'*, RayapatiSubbarao and M.Govardhan, 4th International Conference on Advances in Energy Research, **IIT Bombay**, 2013, 281. (ISBN: 97-81-928795-0-5)
11) *'Computational studies on the effect of speed ratio and stagger angle in a counter rotating turbine with respect to flow field and performance'*, Rayapati Subbarao and M.Govardhan, **703**, 5th International and 41st National Conference on Fluid Mechanics and Fluid Power, **IIT Kanpur**, 2014. (Springer book, ISBN 978-81-322-2741-0)
12) *'Modification of contact tip to reduce defects and cost involved in robot welding'*, Karanam Bharatkumar and Rayapati Subbarao, **129**, International conference on advances in production and industrial engineering, **NIT Trichy**, 2015.
13) *'Design, development and fabrication of 6 dof biped robot'*, Koganti Meghana and Rayapati Subbarao, **166**, International Conference on Advances in Production and Industrial Engineering, **NIT Trichy**, 2015. *(In review for journal)*
14) *'Performance and emissions analysis of a diesel engine using various bio-fuels'*, A.H.Teja, and Rayapati Subbarao and Chava Rajesh, ***88***, International Conference on Mechanical and Manufacturing Engineering, SCSVMV University, Kanchipuram, India, 2015.

15) *'Experimental studies on diesel engine with piston crown modification using an optimum alternative fuel'*, A.H.Teja, Rayapati Subbarao, **102**, International Conference on Mechanical and Manufacturing Engineering, SCSVMV University, Kanchipuram, India, 2015.
16) *'Computational studies on flow through blade rows in a counter rotating turbine'*, Rayapati Subbarao and M.Govardhan, **CF183**, International Conference on Computer Aided Engineering (CAE-2015), Hyderabad, India, 2015. *(In review for journal)*
17) *'Performance studies on a counter rotating turbine and comparison with axial flow turbine configuration'*, Rayapati Subbarao and M.Govardhan, **CF184**, International Conference on Computer Aided Engineering (CAE-2015), Hyderabad, India. *(In review for journal)*
18) '*Testing of various bio-fuels and engine modifications along with customized air gap in a diesel engine'*, Rayapati Subbarao and A.H.Teja, International Conference on Advances in Chemical Engineering (ICACE2015), **79**, **NIT Karnataka**, India, 2015.
19) '*Experimental Studies Involving Flow Visualization over Non-circular Geometries*', Sai Sarath Kruthiventi, Subbarao Rayapati, Sai Nikhil Velpula and Manideep Parmi, **98**, International Conference on Advances in Chemical Engineering (ICACE2015), **NIT Karnataka**, India, 2015. **(Springer proceedings)**
20) 'Investigations on the Performance of Various Bio-Fuels along with Low Thermal Conductivity Piston Crown in a Diesel Engine', Rayapati Subbarao, A.H.Teja, International conference on Innovative Design & Development Practices in Aerospace and Automotive Engineering, Chennai, Veltech University, pp. **39**, **2016. (Springer proceedings)**
21) '*Influence of Heat Treatment on Mechanical and Micro Structural Properties of Titanium Alloys for Enhanced Applications'*, K.Saisarat, Rayapati Subbarao, I.D.Murty, Ravi Gujjula, **ID-Amm-376**, International Conference on Advancements in Materials for Manufacturing (ICAAMM), **2016**.
22) '*Parametric studies on the performance of a counter rotating turbine'*, Rayapati Subbarao and M.Govardhan, **175**, 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016), **MNIT A, Communicated, June 2016.**
23) 'Experimental Analysis on the Characteristics of Gas Turbine Blade Materials', **390**, Rayapati Subbarao and Sadananda Chakraborty, 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016), **MNIT A, Communicated, June 2016.**
24) 'Temperature and Residual Stress Analysis of Welded Joint of Different Grades of Stainless Steel', **457**, Samrat Mandal and Rayapati Subbarao, 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016), **MNIT A, Communicated, June 2016.**

NATIONAL CONFERENCES:

1) '*Effect of axial gap on the aerodynamics of a one and half stage turbine*', Rayapati Subbarao and M.Govardhan, Proceedings of the 38th National Conference on Fluid Mechanics and Fluid Power, **FMFP**,MANIT Bhopal, India, 2011, **TM-07**.
2) 'Thermodynamic simulation of a gas turbine plant for power generation and heating applications', Rayapati Subbarao and K.Saisarat, National Conference on Emerging Trends in Mechanical Engineering, Osmania University, 2014, **T-313.** (ISBN-9789383635559)
3) 'Experimental studies on control techniques of sudden expansion geometries to improve flow structure', Ashokachary, Rayapati Subbarao and Issac Prasad, National Conference on Emerging Trends in Mechanical Engineering, Osmania University, 2014, **T-304**. (ISBN-9789383635559)
4) 'Study of auto feeder in a ginning machine and usage of ergonomic tools on workers', Jijo Mathew, and Rayapati Subbarao, National Conference on Emerging Trends in Mechanical Engineering, Osmania University, 2014, **P-205**. (ISBN-9789383635559)
5) 'Estimation of wing twist to compensate divergence at high speeds', Chava Rajesh and Rayapati Subbarao, National Conference on Emerging Trends in Mechanical Engineering, Osmania University, 2014, **D-123**. (ISBN-9789383635559)

EXPERIENCE DETAILS

1) National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata.
Assistant Professor **Jul 2015 to till date**

Presently working as faculty at NITTTR, that is pioneer in training and education of engineering and polytechnic faculty since 1965. Carrying out teaching, training and research activities.

Responsibilities:

- Teaching courses for PG students. Preparing video lectures for 'Gyan Darshan'.
- Conducting training programmes to engineering and polytechnic faculty in the area of thermodynamics, thermal engineering and turbomachinery.
- Working for the NBA accreditation of the PG programmes.
- Academic Coordinator for the states of Andhra Pradesh and Telengana.

2) KL University, Vijayawada. **Associate Professor**
Aug 2014 to Jul 2015

Worked as Associate Professor in the Department of Mechanical Engineering. Carried out teaching, research and administration activities. Head of the 'Thermal Sciences Lab'.

Responsibilities:

- Teaching subjects like Design of Thermal Systems and Engineering Thermodynamics.
- Counsellor for B.Tech (Mechanical) and Coordinator for M.Tech (Thermal).
- Involved in guiding minor projects in I.C – GT, Heat Transfer and Applied Thermodynamics labs.
- Guiding students' minor and major projects in the area of Thermal Engineering.
- Member of BOS, Curriculum Development and UG and PG projects review committee.

3) IIT Madras, Chennai, India. **Scholar**
Feb 2014to Jul 2014

Worked as scholar after thesis submission with institute funding and carried out research on CFD of Turbomachinery.

Responsibilities:

- Involved in publications in the area of speed ratio and staggering applied to other areas of Turbomachinery.
- Involved in carrying out lab classes for UG and PC students.

4) VIT University, Vellore. **Assistant Professor (Senior)**
June 2006 to April 2009

Worked as Assistant Professor (Senior) in the School of Mechanical Building Sciences. Carried out teaching, research and administration activities.

Responsibilities:

- Teaching subjects like Engineering Thermodynamics, Thermal Engineering Systems, Power Plant Engineering, Engineering Graphics and Workshop Practice for B.Tech.
- Teaching subjects like Hydrogen and Fuel Cells and Power Plant Engineering for M.Tech.
- Set up the 'Fuel Cells Lab' and involved in preparing the lab manual for the same.
- As part of **EU-Asia link program**, involved in preparing material for courses on '**Energy in Built Environment**', '**Hydrogen and Fuel Cells**' and teaching various courses.
- Actively involved in **ABET** (Accreditation Board for Engineering and Technology, USA), National Board for Accreditation (**NBA**) and **NAAC** related work.
- Carried out research on fuel cells, internal combustion engines and alternate fuels.
- Guided B.Tech projects. Member of PG/UG projects review committee.
- VITEE representative for the VIT Entrance Examination in 2007, 008 and 2009.

For ABET:

- Involved in framing the objectives and outcomes of all the B.Tech (Mechanical) subjects.
- Involved in framing the Vision and Mission statements of ***School of Mechanical and Building Sciences*** and the ***Program Educational Objectives*** of B.Tech (Mechanical Engineering).
- Designing new courses like 'Communication skills' and making modifications in B.Tech curriculum.
- Prepared the year-wise '***Outcomes Assessment Reports***'.
- Model course files on 'Engineering Thermodynamics' and 'Power Plant Engineering'.

5)Bhagwant Institute of Technology, Muzaffarnagar,U.P, India. **Lecturer**
Aug 2001 to July 2004

Worked as Lecturer in the Department of Mechanical Engineering. Carried out teaching and administration activities. Got upgradation to 'Senior Lecturer' in the second semester.

Responsibilities:

- Involved in teaching subjects like Elements of Mechanical Engineering, Heat and Mass Transfer, R & AC, Strength of Materials and Thermodynamics.
- Successfully guided various undergraduate major and minor projects.
- Also worked as **Training & Placement Officer.** Successfully looked after the Training & Placement of third and fourth year B.Tech students.
- Involved in 'Deemed University' certification work.
- UP Technical University observer for the Entrance Examination **UPTEE**.

6)Hitec Information Technologies Inc., Virginia, USA. **Software Programmer**
Oct 2000 to Aug 2001

Worked for HitecInfo Inc., which is involved in software development, offering services to wide range of clients like **Nextel, Verizon, Marriot group and Cable & Wireless**. I was associated with its training division '**Itechbuilder**', which is fully equipped to meet the requirements in preparing engineers/consultants on various technologies related to Mechanical and Software related areas.

Responsibilities:

- Involved in training professionals in C++, Oracle, Unix and Linux.
- Assisting the engineers to get their project related problems solved.
- Involved in preparing the course material.
- Involved in preparing various examinations' patterns and training engineers for certifications.

7) Indian Institute of Technology Delhi, New Delhi. **Project Associate**
June 1997 to April 2000

Worked as Project Associate in the project titled "**Computational and Experimental study of heat transfer, fluid mechanics and combustion in biomass stoves**", offered by Department of Science and Technology, India. Involved in designing, fabrication, experimentation and simulation. Handled the project alone under the guidance of Prof.M.R.Ravi, Principal Investigator.

Design of Experimental Set up

Objective of the project is to design an experimental set up that can be used for the study of Heat Transfer, Fluid Mechanics and Combustion in biomass stoves. Design of the set up is made possible by taking various parameters into consideration like flow rate, capacity, the amount of time of flight and user friendliness. Set up includes the gas chamber, flow visualisation set up, outlet for the gases and the smoke generation unit.

Responsibilities:

- Problem identification and solving it.
- Design of the whole set up and getting it fabricated.
- Installation of the experimental set up and testing it.

Experimentation and Evaluation

Experimentation is carried out after assembling the designed parts. The set up is calibrated against standard measurements. These included the calibration of rotameter, smoke generation unit, gas chamber and the flow visualisation unit. Experimentation involves injecting smoke from the rear end of the flow visualisation unit and measuring the time taken to travel along the perspex tube at the inlet. The results are processed and various plots are taken to conduct flow studies at various temperatures and different power capacities.

Responsibilities:

- Assembling and mounting the set up and calibrating it as a whole.
- Experimentation and processing the results.
- Making various plots for all the conditions using Gnu plot MS Excel.

Computational Simulation and Report Generation

Code prepared in Fortranis tested for various conditions. Results obtained through the experimentation and simulation are corroborated. Same problem is solved taking top plate as flat as well as conical. Trends obtained in the experimentation are studied and compared with the computational results.Report generation includes generating plots, diagrams, data processing and tabulation.

Responsibilities:

- Analyzing the data and simulating the results with the existing code.
- Report Generation using various computational tools.

Environment: Red Hat Linux5.2/6.0, Windows 95/98, Gnuplot, Fortran

8) Sai Santosh Electricals Private Limited, Hyderabad. **Q.C In charge**
Nov 1996 to May 1997

Worked as Trainee Engineer in SSE, which is a small-scale producer of steel metallic structures and cylinders. These structures are used in odd weather conditions and places. Thus, structures are to be designed for more robustness and durability. Strength of the structures is dependent on many factors like stress and bulk load it can take. The production unit has many production areas from the raw material to the final product packing.

Responsibilities:

- As a Quality Control in-charge, maintained quality by Inspection & Testing all the production areas, which include Welding, Drilling, Grinding and Gas-cutting.
- Each production area is given different QC plans according to the work procedures. Getting the work done as per the quality standards involved manpower management.
- Involved in extensive checking of the production charts, daily production reports.

DETAILS OF PROJECT WORKS

1) Ph.D work: 'Computational studies on Counter Rotating Turbines'

Increasing demand for the improvement of efficiency, reduction of weight and consideration of fuel consumption in case of aircraft engines lead the researchers to arrive at an unconventional turbine known as Counter Rotating Turbine (CRT) that has two rotors. In case of counter rotating turbines, nozzle is followed by a rotor and then a second rotor that rotates in the opposite direction of the first one. To meet the objective of studying and analyzing CRT, computational model is developed using ICEM CFD 13.0 and CFX 13.0 is used for solving and post processing. Flow field in counter rotating turbine is simulated and various flow and performance parameters are estimated. Effect of axial gap on the flow structure around the vanes and the performance comparison of both the rotors is discussed. It is confirmed that the aerodynamic performance of CRT is dependent on axial gap and can be optimized for any given configuration. Changing speed ratio improved the performance of rotor 2 and the overall CRT performance. Staggering of rotor 2 provided increased performance of CRT with improved flow pattern at the inlet of rotor 2. Finally, CRT performance is compared with that of conventional axial flow turbine.

Place: IIT Madras **Tools: ICEMCFD 13, CFX 13, Origin 8.5, Tecplot 360** **Duration: 4.5 yrs**

2) M.Tech project: 'Thermodynamic Simulation of hybrid Solid Oxide Fuel Cell – GT power plant'
SOFC power plant is known to be a potential alternative power generation system as it produces less harmful emissions with higher efficiency than the conventional technologies. In order to obtain this, both the thermal energy available and the unburned fuel rejected from the cell must be recovered and converted into additional electrical energy. Aim of the project is to develop a model of integrated SOFC and gas turbine system in order to predict thermodynamic performance under different operating conditions and to perform sensitivity studies on system parameters. Simulation tool developed can be used to predict various combinations of operating conditions in order to finally select appropriate characteristics.

Place: IIT Delhi **Tools: C, Linux** **Duration: 1 year**

3) B.Tech Project Work: 'TQM- A case study in Bharat Electronics Limited (*ISO 9002 unit)'.
Case studied BEL in the aspect of quality maintenance from raw material to the final product covering all the production areas. Given suggestions for improvement in the existing Quality System that were approved by the Quality Assurance Manager, BEL.

Place: BEL, Machilipatnam **Duration: 6 months**

SEMINARS/ GUEST LECTURES/ TRAINING PRORAMMES

UG level: In final year B.Tech, on 'Types of Pistons and their applications'.

PG level (IIT Delhi):

- ✓ 'Improving drive-ability by adjusting the compression during operation of an I.C engine'.
- ✓ 'Thermal Stresses and their applications in engineering industry'.
- ✓ 'Thermodynamic modelling of hybrid SOFC-GT power plants'.
- ✓ 'Turbo-charging in internal combustion engines'.

- ➢ Guest lectures on 'Thermal Engineering Systems' and 'Engineering Thermodynamics', workshop on 'CFD modeling using CFX and ICEMCFD' in SITS, Hyderabad and SCET, Hyderabad in 2010, 2011 and 2012.
- ➢ As a visiting faculty, successfully conducted the courses on 'Elements of Mechanical Engineering' and 'Thermal Engineering' at BIT, M.Nagar, U.P (2004-06).

SEMINARS, WORKSHOPS AND CONFERENCES ATTENDED

S.No	Title of the conference/seminar	Organized by	Duration	Year
1	International Congress on Renewable Energy (*ICORE 2006*)	Osmania University, Hyderabad	3 days	Feb 2006
2	22nd International Conference on *CARs & FOF*	VIT University, Vellore	3 days	Jul 2006
3	International workshop on e-waste management	TERI and European Union in New Delhi	2 days	May-06
4	Two-day international seminar on Decentralized power generation: Prospects and Challenges	VIT University, Vellore	2 days	Jul-06
5	38th National Conference on Fluid Mechanics and Fluid Power, **FMFP 2011**	MANIT, Bhopal	3 days	Dec 2011
6	Indo-UK workshop on low carbon Technologies	IIT Madras	3 days	Mar-08
7	International Conference on Recent Advances and Challenges in Energy (RACE)	MIT, Manipal	3 days	Jan 2012
8	International Symposium on Fluid Mechanics and Fluid Engineering (**ISFMFE** 2012)	Turbomachinery Society, Japan, Korean Fluid Machinery Association	4 days	Oct 2012

		in Jeju, Korea		
9	International Conference on Advances in Energy Research	IIT Bombay	3 days	Dec 2013
10	5th International and 41st National Conference on Fluid Mechanics and Fluid Power	IIT Kanpur	3 days	Dec 2014
11	14th Symposium on International Automotive Technology 2015 (SIAT 2015)	ARAI, Pune	3 days	Jan 2015
12	National Workshop on Emerging trends in Renewable Energy	KL University, Vijayawada	2 days	March 2015
13	International Conference on Mechanical and Manufacturing Engineering,	SCSVMV University, Kanchipuram	2 days	April 2015
14	Simulation Based Engineering Science : A Scientific Approach to Engineering	MNIT, Jaipur	2 days	April 2015
15	International Conference on Computer Aided Engineering (CAE 2015)	Gitam University	3 days	Dec 2015
16	Aligning the polytechnic curriculum for industry needs	NITTTR Kolkata	1 day	Jan 2016
17	2nd Regional workshop in improving quality of technical education in the north eastern states	NITTTR Kolkata	2 days	April 2016

Areas of Interest: Turbomachinery, CFD of Turbom/c, Axial Flow Turbines, Counter Rotating Turbines, Combined cycle power plants, SOFC-GT, Power Plant Engineering, Fuel cells, Alternative fuels.
Notable Technical Contributions: Studies on counter rotating turbines (flow and performance), Testing of hydrogen as fuel in an I.C engine, Experimentation on fuel cells, Choosing the best alternative bio-fuel and improving the performance of a diesel engine, Modeling of SOFC-GT for higher performance, Utilization of fly ash for pavement blocks and Finding the suitable coal for a thermal power plant.

HONOURS AND ACHIEVEMENTS

- Awarded with **National and State Merit Scholarships.**
- Topper in M.Tech third and fourth semesters at IIT Delhi with SGPA 10.
- Member of **Institution of Engineers (India) (MIE).**
- Represented school and college in Elocution, Essay writing and Quiz at state and district level. Won district third prize in Quiz twice.
- Life member of **Indian Society of Heat and Mass Transfer (ISHMT), Fluid Mechanics and Fluid Power (FMFP), Combustion Institute (India), Indian Society of Technical Education and American Society of Mechanical Engineers (ASME).**
- Member of **Rotaract Club International,** during graduation.
- Successfully cleared 31st Annual **UN Information test**, conducted by United Schools Organisation (U.S.O) topping the region with 77% marks.
- Successfully cleared 9th**UNESCOInformation Test** with 59% marks.
- Reviewer for **ASME GT India 2014, FMFP 2015.**
- Presently, reviewer for **Proceedings of the Instn of Mech Engrs, Part A: Journal of Power and Energy and Journal of Mechanical and Engineering Sciences.**
- Paper setter for UG and PG in other Universities/autonomous colleges.

SHORT TERM COURSES/ CONTINUING EDUCATION PROGRAMMES

S.No	Name of the Programme	Place	Month & Year	Details/Duration
1	**Teaching Methodologies**	SSDM, Muzaffarnagar, U.P	Feb 2003	1 day
2	**Soft skills Training Programme**	VIT University, Vellore	Oct 2006	6 days
3	**Faculty Induction programme**	VIT University, Vellore	June 2007	3 days
4	**Basic skills in Counselling**	Christian Counselling Centre, Vellore	Jan 2008	5 days
5	**Basic and Applied CFD**	VIT University, Vellore	Dec 2008	3 days (By Swansea University, UK)
6	**Industrial Piping Systems Design**	VIT University, Vellore	Feb 2009	4 days (Aachen University of Applied Sciences, Germany)
7	**Faculty Induction Training**	NITTTR Kolkata	Dec 2015	2 weeks

- Successfully completed *Unix, C, C++ course* in **ET&T (Govt. of India)**, New Delhi in Jan 1998.
- Done course in ***Object Oriented Programming in C, C++*** from **Indian Institute of Technology, New Delhi** in July 1998.

DETAILS OF LABORATORY EXPERIENCE:

At KL University (2014 to till date)

- Conducted lab classes for UG on 'I.C-G.T', Applied Thermodynamics and Heat Transfer.
- Installed new components like 'Exhaust gas analyzer', 'Plate type heat exchanger' and equipment for retrieving the heat from the exhaust and supply at inlet to improve performance.
- Head of Thermal Sciences Lab.

At IIT Madras (2009 to 2013)

- Conducting lab classes for UG and PG on Wind tunnel, Axial flow fan, Centrifugal blower and Calibration of wedge probe as Teaching Assistant.

At VIT University (2006 to 2009)

- Set up '**Fuel Cells Lab**' and made operational.
- Handled '**Thermal Engineering Lab**'. Involved in the preparation of lab manual.
- Handled '**Workshop Practice**' Lab course. Involved in the preparation of lab manual.

At BIT, Muzaffarnagar (2001 to 2004)

- Set up '**Heat and Mass Transfer Lab**' and made operational.
- Handled '**Engineering Drawing' and 'Workshop Practices'** Labs. Prepared lab manuals.

COURSES DESIGNED/ COURSE CONTENTS PREPARED

1) Engineering Thermodynamics
2) Thermal Engineering Systems
3) Power Plant Engineering
4) Design of Thermal Systems
5) Principles of Turbomachinery
6) Hydrogen and Fuel Cells

PROJECT PROPOSALS/ ATTEMPTS MADE

1) **'Equipment for Thermal Engineering Laboratory' (Institutional project) at NITTTR K, (35 lakhs), Sanctioned, Implementation stage, 2015-16.**
2) 'Aligning polytechnic curricula with job requirements' **(Institutional project) at NITTTR**, (15 lakhs), Co PI, Project proposal submitted, **2016-17.**
3) **Involved in** 'Solar Dish Stirling Engine' project from DST along with other faculty (2006) at VIT.
4) As **PI**, Proposal on 'Experimentation on counter rotating turbines' is submitted to GTRE (Budget: Rs.7 lakhs, **under review**).

ADDITIONAL INFORMATION:

1) At VIT and BIT, apart from Teaching, R&D, also played the roles of
   University observer (UPTU, VITEE 2007,08,09)
   External examiner, Projects reviewer and Counsellor (BIT and VIT)
   Training and Placement officer (BIT)
   Minutes writing officer, ABET Certification committee member (VIT)
   Involved in conducting KLUEEE-15
2) Presented papers in international conferences in India/abroad.
3) Worked in USA and visited South Korea to present a paper in an International conference.
4) Involved in prestigious programs like **EU-Asialink** and prepared course materials for the same. Also, involved in certification work like **ABET,USA, NBA** and **NAAC** of India.
5) Involved in organizing technical sessions at two international conferences held at IIT Madras, convened by Prof.B.V.S.S.S.Prasad (***11th Asian International Conference on Fluid Machinery & 3rd Fluid Power Technology Exhibition*** held from Nov 21-23, 2011 and ***37th National and 4th International Conference on Fluid Mechanics and Fluid Power*** held at IIT Madras from Dec 16-18, 2010).
6) At VIT, involved in organizing various workshops, seminars and conferences, conducted by our School of Mechanical and Building Sciences
7) At KLU, prepared proposals for one National and one International conference, to be conducted our Mechanical Engineering department in the area of Thermal and Energy Engineering.
8) At NITTTR Kolkata, acting as PG Coordinator. Involved in **UNESCO-UNEVOC programs**. Coordinator for **ACM International Collegiate Programming Contest,** Dec 2015. Coordinated technical sessions in **2nd Regional workshop in improving quality of technical education in the north eastern states**. Also, as NBA officer, taking care of NBA accreditation activities of NITTTR K.

TEST SCORES

GRE 1730 out of 2400 (2001) TOEFL CBT 247 out of 300 (2001)

REFERENCES

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Dr. B.V.S.S.S. Prasad
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Seshadri Rao Knowledge Village, GUDLAVALLERU

Department of Mechanical Engineering

IV B.Tech (Sec-B) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
1	14481A0361	GANESANA VENKATA RAMANA	
2	14481A0363	GUNTAKA SAI KRISHNA REDDY	
3	14481A0364	GUNTREDDI JAI DURGA VARA PRASAD	
4	14481A0365	GUTHULA SAI CHAND	
5	14481A0366	JAGUPILLA GNANESH	
6	14481A0367	JULAKANTI PRADEEP REDDY	
7	14481A0368	KADALI HARSHAVARDHAN	
8	14481A0369	KAKANI VENU	
9	14481A0370	KALAPALA NAVEEN BABU	
10	14481A0371	KANAJAM PAVAN KALYAN	
11	14481A0372	KANAMARLAPUDI NIKHIL KUMAR	
12	14481A0373	KANDUKURI CHAITANYA KUMAR	
13	14481A0374	KANVAPURI SAI KRISHNA	
14	14481A0375	KARRA NAVEEN BABU	
15	14481A0376	KASTURI TEJASRI	
16	14481A0377	KATRAGADDA VASU SAI RAMA KRISHNA	
17	14481A0378	KATTA DEVAKANTH	
18	14481A0379	KHATRAVAT BALARAM NAIK	
19	14481A0380	KODALI YOGANAND	
20	14481A0381	KOLUSU NAGA BABU	
21	14481A0382	KOPPADI THAMBI SWAMY	
22	14481A0383	KOPPULA MURALI	
23	14481A0384	KORLEPARA S V SATYA NAGENDRA RAVI TEJA	
24	14481A0385	KOSURI CHITTI	
25	14481A0386	KUNAPULI YAGNA NARAYANA PAVAN	
26	14481A0387	LAGADAPATI NARESH	
27	14481A0389	MAHADASU V V SATYANARAYANA	
28	14481A0390	MALLADI SAI PRAKASH	
29	14481A0391	MANDA E V V N S S MANI KANTA	
30	14481A0393	MAREEDU DURGA KISHORE	
31	14481A0394	MARREDDY NAGA SAI VAMSI KRISHNA	
32	14481A0395	MATTA SAI DURGA MOUNIKA	
33	14481A0396	MATTI VEERA RAHAVAYYA	
34	14481A0397	MEDA NAVEEN	
35	14481A0398	MEKALA NEERAJ	
36	14481A0399	MESAPAM NAVEEN	
37	14481A03A0	MOHAMMAD MUBEEN	

IV B.Tech (Sec-B) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
38	14481A03A1	MOHAMMAD SIRAZUDDIN	Md Sirazuddin
39	14481A03A2	MOHAMMAD ZABEULLA	Md. Zabeulla.
40	14481A03A3	MOHAMMED IRFATH BASHA	Bashq
41	14481A03A4	MUDUNURU DINESH RAHUL	Dinesh Rahul
42	14481A03A5	MUKKU CHANDU	M. Chandu
43	14481A03A6	NADAKUDITI GOPALA KRISHNA	-Ab-
44	14481A03A7	NAIDU VAMSI KRISHNA	N. Vamsi Krishna
45	14481A03A8	NARASAMSETTY SAI PRADEEP	Sai Pradeep
46	14481A03A9	NAVEEN PANTHAGANI	P. Naveen
47	14481A03B1	PADYALA ALLAPARTHESWARA RAO	A Rao
48	14481A03B3	PARASA PRUTHVI	K. Pruthvi
49	14481A03B4	PARSA RAHUL SANDEEP	P. Rahul
50	15485A0313	MUDRAGADA SAI KISHORE	Kishore. M
51	15485A0314	NANDAMALA ANUSHA	-Ab-
52	15485A0315	KAGITHA RAJESH	K. Rajesh
53	15485A0316	DOKKU SRI DURGA NAGA MANOJ	D. Manoj
54	15485A0317	PARISE DANUSH	P. Danush
55	15485A0318	JARPALA SAI	J. Sai
56	15485A0319	DANDUBOINA RAGHAVENDRA	Raghu.
57	15485A0320	BANDARU UMA BALA SUBRAHMANYAM	B. U. B. Raju
58	15485A0321	CHITTIBOMMA DURGA PRASAD	Durga Prasad
59	15485A0322	NUNE KIRAN	Kiran N
60	15485A0323	GANGAVARAPU BRAHMAIAH	Brahmaiah.
61	15485A0324	AJJARAPU SRINIVAS	A. Srinivas
62	15485A0325	SONTHI TEJA KUMAR	Teja Kumar. S
63	15485A0326	MOKA RAVI KUMAR	Ravi Kumar
64	15485A0327	KARE HEMANTH KUMAR	K. Hemanth.
65	15485A0328	MOKKALAKATHI BABU RAO	M. Babu Rao
66	15485A0330	NAGENDLA BHARATHI	Bharathi
67	15555A0362	THOTA SAI KIRAN	T. Sai

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Department of Mechanical Engineering

IV B.Tech (Sec-A) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
1	14481A0301	ABDUL JANI	
2	14481A0302	ABDUL SOHAIL	
3	14481A0303	PAVAN KUMAR	
4	14481A0304	ALLU SAI KIREETI	
5	14481A0305	ALURI SAI DIVYA	
6	14481A0306	AMARAPU GNANA VIKAS	
7	14481A0307	ANGADALA SIVA NAGA MALLESWARA RAO	
8	14481A0308	APPIKONDA MURALI	
9	14481A0309	ARAVA PITAR BABU	
10	14481A0310	AREPALLI GANESH	
11	14481A0311	ATHUMURI JISHVANTH VENKATA VINAY PRABHU	
12	14481A0312	AVVARU UMA VAMSI KRISHNA	
13	14481A0313	BACHU LAKSHMI GANESH GUPTHA	
14	14481A0314	BALIGA SRIKANTH	
15	14481A0315	BANALA SATISH	
16	14481A0316	BANDARU ANUDEEP	
17	14481A0317	BANDARU SANTHAN	
18	14481A0318	BATTINA ANKA VENKATA KISHORE	
19	14481A0319	BEERAM GNANENDRA REDDY	
20	14481A0320	BOBBA MURALI KRISHNA	
21	14481A0322	BODDU KUMAR ROHIT	
22	14481A0324	BOYINA VENKATESH	-Ab-
23	14481A0325	CHALAPAKA RAVI TEJA	-Ab-
24	14481A0326	CHANAMPUDI DIVYA TEJA	
25	14481A0327	CHANDANA DINIL VENKATA KUMAR	
26	14481A0328	CHAVA SRI KALYAN	
27	14481A0329	CHEDARABOINA BHARGAVA NARAYANA	-Ab-
28	14481A0330	CHIDARABOINA ROHITH YADAV	
29	14481A0331	CHIGILIPALLI VINOD KUMAR	
30	14481A0332	CHIMATABOYINA VENKATA RAO	
31	14481A0333	CHIMIRALA NITHISHA	
32	14481A0334	CHINTHA RAMA CHAND	
33	14481A0335	CHITTURI SAI KUMAR	
34	14481A0336	DALIPARTHI REVANTH	
35	14481A0337	DANDIBHOTLA V N S S KARTIKEYA	
36	14481A0338	DASARI SYAMKUMAR	
37	14481A0339	DAVULURI SIVA SURENDRA	

IV B.Tech (Sec-A) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
38	14481A0340	DEVALLA AMARNADH	
39	14481A0341	DEVARAKONDA VENKATESH	
40	14481A0342	DHAL SATYA BRATH	
41	14481A0343	DHARAVATHU SAIKUMAR	
42	14481A0344	DHARAVATTU GOPI	
43	14481A0345	DHOMMETI BALA MANIKANTA SAI SRINIVAS	
44	14481A0346	DOKKU SRIKANTH	
45	14481A0347	DONDAPATI CHRISTY SUNIL	
46	14481A0348	DRONADULA MANOHAR RAO	
47	14481A0349	GADI SATHI BABU	
48	14481A0350	GANAPABATHULA NAGABABU	
49	14481A0351	GANGULA JAYACHANDRA	
50	14481A0352	GARA VENU BABU	
51	14481A0353	GAVIREDDY KIRAN KUMAR	
52	14481A0354	GERA JOSEPH VIJAY SAMSON	
53	14481A0355	GOLI NAGA KIRAN	
54	14481A0356	GOLLA VEERABRAHMAIAH	
55	14481A0357	GOLLAPATI ROHITH SHEKHAR	
56	14481A0358	GORLA GEETHA GNANA KUMAR	
57	14481A0359	GUDAPATI SUBHAKAR	
58	14481A0360	GUMPULA PRABHU KUMAR	
59	15485A0301	VIKRUTHI BALA KOTESWARA RAO	
60	15485A0302	GOVADA KALYAN	
61	15485A0303	KORAPATI PRASANTH	
62	15485A0304	KALLEPALLI RAMYA	-Ab-
63	15485A0305	BALASANI SHALEM	
64	15485A0306	CHANDALURI VASANTA KIRAN	
65	15485A0307	KURAPATI SOANY	-Ab-
66	15485A0308	KURMA GOVARDHANA SIVA LAKSHMI KANTH	
67	15485A0309	KAKULLA SUDHEER	
68	15485A0310	BALE SATISH	
69	15485A0311	NAGULAPATI SIRISHA	-Ab-
70	15485A0312	BYREDDY VENKATA SAI DURGA RAO	

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Department of Mechanical Engineering

IV B.Tech (Sec-C) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
1	14481A03B5	PASUPULETI SAI KUMAR	P. Sai Kumar
2	14481A03B6	PATCHIGOLLA SRIRAM KAMAL	P. Kamal
3	14481A03B7	PATHIVADA RAGHU	Raghu
4	14481A03B8	PATTAPU PAVAN KALYAN	P. Kalyan
5	14481A03C0	PENDYALA ADITYA SRINIVAS	P. Aditya Srinu
6	14481A03C1	PENTRALA DUSHYANTH	P. Dushyanth
7	14481A03C2	PIRLA NARENDRABABU	Narendrababu
8	14481A03C3	POLEPEDDI ANIL KUMAR	P. Anil Kumar
9	14481A03C4	POLISETTI RAMA KRISHNA	P. Ramakrishna
10	14481A03C5	POOJA TONDULA	T. Pooja
11	14481A03C6	POSA HARISH	P. Harish
12	14481A03C7	POTTA KUMAR TRINADH	P. Trinadh
13	14481A03C8	PULAGAM NAGA VENKATA SAI PAVAN KUMAR	P. Pavan.
14	14481A03C9	PYLA SASANK	Sa Sank.
15	14481A03D0	RACHAMADUGU SAMYUKTHA	R. Samyuktha
16	14481A03D1	RAJULAPATI TARUN	Tarun
17	14481A03D2	RAMISETTY LEELA PRASAD	Leela
18	14481A03D3	RANGU GOVARDHANA CHARY	R. G. Chary
19	14481A03D4	RASHEED BAIG	Rashid Baig
20	14481A03D5	REDDI SANTOSHKUMAR	R. Santoshkumar
21	14481A03D7	SATTENAPALLI SIVA RAMA KRISHNA MURTHY	SSRKM
22	14481A03D9	SEKUBOYINA BALARAM	S. Balaram murthy
23	14481A03E0	SHAIK BADI US ZAMA	Zama
24	14481A03E2	SHAIK OMAR MOHASIN	Omar
25	14481A03E3	SURE RAMA KOTESWARA RAO	S. R. K. Rao
26	14481A03E4	TALAKAYALA NIRANJAN	-Ab-
27	14481A03E6	TELLA VIVEK	-Ab-
28	14481A03E7	TENELA PRABHU KANTH	T. Prabhukanth
29	14481A03E8	THAMMISETTI SAITEJA	T. Sai Teja
30	14481A03E9	THOTA HARISH	T. Harish
31	14481A03F0	THOTA PHANI SREE	T. Phani Sree
32	14481A03F1	THULAM GOWRI PRASANNA SAI SHANKAR	-Ab-
33	14481A03F3	TUNGALA SAI PHANI KUMAR	T. Phani kumar.
34	14481A03F4	UPPALAPATI SAI NIHITH	~~USN~~
35	14481A03F5	VADDADI SAISANDEEP	Sai Sandeep
36	14481A03F8	VALLURIPALLI JASWANTH CHOWDARY	-Ab-
37	14481A03F9	VARA DURGA MALLESWARA RAO	VDMRAO

IV B.Tech (Sec-C) Attendance Sheet : A Guest Lecture on Computational Techniques for Mechanical Engineers

S.No.	Roll No	Name of the Student	Signature
38	14481A03G1	VELAGA NAGA SUKANYA	V. Naga Sukanya
39	14481A03G2	VEMULAPALLI UMA RASAGNA	Rasagna. V
40	14481A03G3	VENKAT DARAM	
41	14481A03G4	VURLAGANTI PRASANNAKUMAR	
42	14481A03G5	YADAGIRI SAI KUMAR	
43	14481A03G6	YALLA HEMANTH	
44	14481A03G7	YARLAGADDA SURESH	
45	14481A03G8	YELICHERLA CHANDRAKANTH	
46	14481A03G9	YELLEPEDDI VIJAYA RAGHAVA KRISHNA KUMAR	
47	14481A03H0	YERRAMSETTY SATYA SINDHU	Y. Satya Sindhu
48	14481A03H1	ZANNU VAMSIDHAR GOUD	Z. Vamsi
49	14481A03H2	KATIKALA RAMA RAO	K. Ramarao
50	14481A03H4	NOORBASHA KARIMULLA	N. Karimulla
51	14481A03H5	KONDURI CHAITANYA	K. Chaitanya
52	15485A0332	CHEGONDI SATYANARAYANA	C Satya.
53	15485A0333	MANDALI VENKATESWARA RAO	-Ab-
54	15485A0334	YERUBANDI BURAYYA	Y. Burayya.
55	15485A0335	MD ZAVID MIYAMDAD	md. Zavid
56	15485A0336	ANTHIKAPALLI BHASKAR	A Bhaskar
57	15485A0337	PULI RAJASEKHAR	P. Rajasekhar
58	15485A0338	GONGATI DEVIKA	-Ab-
59	15485A0339	BOTCHA DEVI	Devi. B
60	15485A0340	DEVARAKONDA VENKATESH	D. Venkatesh
61	15485A0341	GUMMADILLI GOPI KRISHNA	G. Gopi Krishna
62	15485A0342	SRAVANKUMAR MARRAPU	M- Sravan
63	15485A0343	NAARA YESU RAJU KUMAR	-Ab-
64	15485A0344	RIMMANAPUDI MOHAN KRISHNA	-Ab-
65	15485A0345	TANGIRALA MOHITH SAI CHARITH	-Ab-
66	15485A0346	VEERA VENKATA SRIKANTH BORRA	-Ab-


A Guest Lecture
on
COMPUTATIONAL TECHNIQUES FOR
By
Dr. RAYAPATI SU
ASME
By
Dr. Rayapati Subbarao
NITTTR, Kolkata
Computational Techniques for Mechanical Engineers

తెలుసుకున్నారు. కార్యక్రమంలో ఓ.పి. కిషోర్, అర్జు ప్రసాద్ పాల్గొన్నారు.

వేమవరంలో వరిచేల పరిశీలన

వరి చేలను పరిశీలిస్తున్న మండల వ్యవసాయాధికారి

గుడ్లవల్లేరు: పొలంబడి కార్యక్రమంలో భాగంగా మంగళవారం గుడ్లవల్లేరు మండలంలో వేమవరంలో వరిచేలను పరిశీలించారు. ఈ కార్యక్రమంలో వ్యవసాయాధికారి రమాదేవి, రైతులకు పలు సూచనలు ఇచ్చారు. ఈ కార్యక్రమంలో ఆత్మ బీటీఎం నిర్మల, రైతులు పాల్గొన్నారు.

గుడ్లవల్లేరు కళాశాలలో సెమినార్

సదస్సులో ప్రసంగిస్తున్న ప్రొఫెసర్ డాక్టర్ రాయపాటి సుబ్బారావు

గుడ్లవల్లేరు: యంత్ర పరికరాల రూపకల్పనలో మోడలింగ్ పాత్ర ఎంతో విశిష్టమైందని కలకత్తాకు చెందిన నేషనల్ ఇన్‌స్టిట్యూట్ ఆఫ్ టెక్నికల్ టీచర్ ట్రైనింగ్ అండ్ రీసెర్చ్ సెంటర్ ప్రొఫెసర్ డాక్టర్ రాయపాటి సుబ్బారావు అన్నారు. మంగళవారం స్థానిక గుడ్లవల్లేరు ఇంజనీరింగ్ కళాశాలలో మెకానికల్ విభాగంలో విద్యార్థులకు కాంపిటేటివ్ టెక్నిక్ ఫర్ మెకానికల్ ఇంజనీర్ అనే అంశంపై డాక్టర్ సుబ్బారావు ప్రసంగించారు. మోడలింగ్, మౌల్డింగ్, పోస్ట్ ప్రాసెసింగ్ చేసిన తరువాత ఫలితాలను సరైన విధానంలో విశ్లేషించడం ద్వారా వస్తువు రూపకల్పన నాణ్యతగా జరుగుతుందని చెప్పారు. కార్యక్రమంలో మెకానికల్ విభాగాధిపతి డాక్టర్ ఎం.ఆర్.పి.హెచ్. శాస్త్రి, వైస్ ప్రిన్సిపాల్ డాక్టర్ పి. రవీంద్రబాబు, డీన్ డాక్టర్ కరుణకుమార్, సెంటార్ డాక్టర్ ఎ. జవహర్‌బాబు, ఎల్. రమేష్, బాసిస్సైదా పాల్గొన్నారు.

సమస్యలను అడిగి తెలుసుకున్నారు. పెన్షన్‌లు వచ్చాయని
ప్రజలు మంత్రిని కోరారు. అనంతరం ఆయన మాట్లాడుత
కింద ఇళ్ళ స్థలాలు మంజూరయ్యాయని, అర్హులైన వార
ఇస్తామన్నారు. ఇంటింటికీ తెలుగుదేశం కార్యక్రమానికి
వస్తోందన్నారు. మాజీ ఎమ్మెల్యే రావి వెంకటేశ్వరరావు మా
అభివృద్ధి చేసి నిరుద్యోగులకు ఉద్యోగాలు కల్పించాలనే
పెట్టుబడులను ఆహ్వానించారన్నారు. మున్సిపల్ ఛైర్మన్ య
ఎమ్మెల్యే ముద్దు నిద్ర నుంచి మేల్కొని ఏవేవో వ్యాఖ్యలు చే
తూర్పు కృష్ణా డెల్టా ప్రాజెక్ట్ కమిటీ ఛైర్మన్ గుత్తా శి
తంగిరాల వాణి, కౌన్సిలర్లు రామకృష్ణ, వసంతవాడ దుర్గా
టీడీపీ నేతలు ఎం.రమేష్‌చౌదరి, ఎ.సతీష్, కె. సుధాకర్, స
అధ్యక్షురాలు యార్లగడ్డ సుధారాణి, కార్యదర్శి గొర్ల శ్రీలక్ష్మీ పా

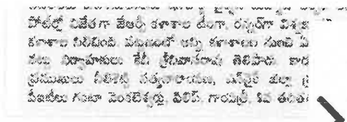
బాలామృతంలో పోషకా

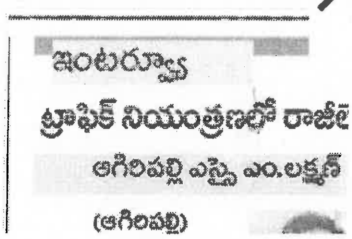
వలివర్తిపా
తున్న సర్

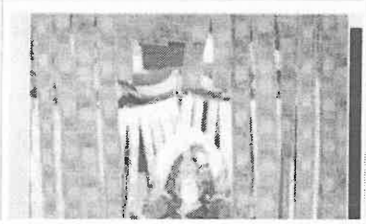
గుడివాడ రూరల్: మండలంలోని వలివర్తిపాడు గ్రామంలో బాలామృతాన్ని మంగళవారం సర్పంచ్ శాయన అనసూయమ్మ పంపిణీ చేశారు. అంగన్‌వాడీ-1లో బాలామృతాన్ని పంపిణీ చేశారు. సర్పంచ్ మాట్లాడుతూ ప్రభుత్వం పంపిణీ చేస్తున్న బాలామృతంలో చాలా పోషకాలు ఉంటాయన్నారు. ఈ బాలామృతాన్ని సద్వినియోగం చేసుకోవాలని గ్రామస్థులను కోరారు.

కూరగాయల ధర

టమాట	10	బంగాళదుంప	14	ఉల్లి	1
వంకాయ	18	క్యాబేజి	26	గోరుచిక్కుడు	
బెండ	10	క్యారెట్	28	దోస	
మిర్చి	17	దొండ	13	చామదుంప	
కాకర	12				
బీర	20				







PROGRAM REPORT

Name of the Program	:	Guest lecture on **"Computational Techniques for Mechanical Engineering"**
Dates	:	26.09.2017
Details of the Resource Person	:	Dr.RayapatiSubbarao, Assistant Professor, NITTTR, Kolkata
Objective of the Program	:	• To impart knowledge about various computational methods of fluid flow and solve simple fluid flow problems. • To recognize the nature of the fluid problem and apply boundary conditions. • Ability to design a system or process and simulate to meet desired needs and solves engineering applications. • To know modern trends in CFD.
Outcome of the Program	:	• Acquires knowledge about applications of CFD • Ability to solve real world problems
No. of Participants	:	152
Concluding Remarks	:	CFD is a tool which is used to analyze flow of a fluid and behavior of a system in fluid environment. The program has given good insights on design of system and consideration of boundary conditions for various applications. It has helped the students in understanding the concepts more visually using a software tool.

Coordinator

H.M.E.