


Workshops / Seminars Conducted During Academic Year 2015-2016

S. No.	Academic Year	Name of the Workshop / Seminar	Date From – To	Department
1	2015-16	A Two Day National Level Technical Training Workshop on Refrigeration & Air – Conditioning	10-02-2016 to 11-02-2016	Mech.
2	2015-16	BSE - IPF Capital Market Awareness Program by Mr. Hasam Khan Resource Person, Lotus know wealth Pvt. ltd Mumbai	27.10.2016	MBA
3	2015-16	A three day national work shop on “Automobile & Vehicle Dynamics	06-10-2015 to 08-10-2015	Mech.


R&D Coordinator


Principal
Principal / Director
Methodist College of Engg. & Tech
Abids, Hyderabad-01.

Activity Report

A 2 Day National Level Technical Training Workshop on Refrigeration & Air – Conditioning held on “10 Feb – 11 Feb 2016”. Organized by Department of Mechanical Engineering, Methodist College of Engineering & Technology. Coordinated by Dr.U.S.Vara Prasad, Professor & Md.Fakhruddin H.N., Associate Professor and Convened by Dr..A Rajasekhar, Head – M.E. Dept.

Day one

Lecture I

Speaker: Mr. Kizer Quarni, Principal Consultant _Prudential Engineers

Fundamental of air conditioning, types of refrigeration, basic cycle of operation, visual display of various cycles. Domestic and industrial application of refrigeration, various refrigerants their hazards, montriel protocol. Components of refrigeration cycle, their types.

Vapour absorption & vapour compression cycle, Electrolux, pulse jet and Thermo Electric Refrigeration, Air Refrigeration cycles. Justification for the word COP, TR, BTU/H, Properties of refrigerant,

Lecture II

Speaker: Dr.U.S.Vara Prasad, Professor (MCET)

PSYCHROMETRY Moist Air properties, use of Psychrometric Chart, Various Psychrometric processes, Air Washer, Adiabatic Saturation.

Flow through Ducts, Static & Dynamic Losses, Air outlets, Duct Design–Equal Friction Method, Duct Balancing, Indoor Air Quality, Thermal Insulation, Fans & Duct System Characteristics, Fan Arrangement Variable Air Volume systems, Air Handling Units and Fan Coil units.

Lecture III

Speaker: Md.Fakhruddin H.N., Associate Professor (MCET)

Air movement and Orientation of buildings, Landscaping in the tropics, Design consideration in different climate conditions, Tropical sky scrapers, Effects of greenery –Natural ventilation. Water piping in Chilled Water Systems, Multiple Fan Coil Units, Condensers Multiple Condensers and Cooling Towers.

Lecture IV

Speaker: Dr.U.S.Vara Prasad, Professor (MCET)

Hermetic compressors-Reciprocating, Rotary, Scroll Compressors, Open type compressors-Reciprocating, Centrifugal, Screw Compressors. Semi hermetic compressors- Construction, working and Energy Efficiency aspects. Applications of each type.

Axial flow fans: Rotor design airfoil theory, vortex theory, cascade effects, degree of reaction, blade twist stage design, surge and stall, stator and casing, mixed flow impellers.

Day two

Demonstration

Refrigeration and air-conditioning accessories were demonstrated. Disassemble models of window a/c, home refrigerator was assembled in cyclic order. Components like Duct, diffuser, grill, damper, sound attenuator, compressor, evaporator, fin, vacuum m/s, charging manifold etc. are displayed and explained the working principle, followed by

Question Hour

In which participants clarifies their doubts and in turn trainer put queries, which are answered well.

Test hour: 30 objective questions were framed and allotted time is 60 minutes. Results, 1st & 2nd prize were declared in Valedictory Function. Appreciation Certificates and participation Certificate were distributed.



Principal Dr.G.Akula addressing the Participant
A 2 Day National Level Technical Training Workshop on
Refrigeration & Air – Conditioning
held on “10 Feb – 11 Feb 2016”



Mr. Kizer Quarni, Principal Consultant _Prudential Engineers
A 2 Day National Level Technical Training Workshop on Refrigeration & Air – Conditioning held on
“10 Feb – 11 Feb 2016”



**Methodist College of Engineering and Technology
Abids, Hyderabad
Research and Development Cell
A.Y 2016-17**

Seminar on “BSE - IPF Capital Market Awareness Program”

Date: 27.10.2016

Venue: Methodist college of Engineering and technology-D-Block Seminar Hall

Summary report

The Department of Business Management organized a seminar on Capital Market Awareness. The programme provide a comprehensive understanding about Capital Market. It is ideal for those who want to begin their careers in Capital Markets. CPCM offers a comprehensive survey of capital markets. Banking and Finance, the role of central banks and the evolving regulatory landscape are some of the core topics of the course. The program also provides a thorough grounding in the full range of capital market instruments.

BSE IPF has been spearheading financial inclusion through increased awareness and education. These span a very wide range, starting from the basics of capital market products and services, the dos and don'ts of opening and maintaining brokerage and demat accounts, to programmes focused on specific products and services, including new initiatives like the SME segment.

BSE IPF conducts Investor Awareness Programs on its own as well as also invites other constituents of the capital market like SEBI, SEBI registered Investor Associations, Industry Associations like CII, IMC, ASSOCHAM, FICCI, PHDIC etc., Depositories, Media and educational institutions like schools, colleges and universities to these programmes.



HOD MBA welcoming the guest



Speaker addressing the students



Speaker along with faculties



Speaker along with students

Coordinator sign

**Report on A 3-day national work shop on "AUTOMOBILE & VEHICLE DYNAMICS"
on 06 Oct – 08 Oct 2015**

A 3-day national level technical training workshop on automobile engineering & vehicle dynamics held on "06 oct – 08 oct 2015" is organized by department of mechanical engineering in association with formula 1 racing Marshalls, elite techno groups-director of AMK industries. Coordinated by Md.Fakhruddin H.N., Associate Professor and Convened by Dr. A Rajasekhar, Head – ME.

Training Programs included introduction to Automobile Engineering, steering, braking, suspension and tyre mechanism, derivation of drifting equation and turning equation, design parameters of engine, FAE on different designs & its physical significance & intake manifold tuning for performance engines, where expert faculties conducted the workshop in an interactive manner with the participants working on the application of what they were taught during the course of the workshop. Various individual and team based exercises are conducted so that our future engineers are comfortable working with others as they are with themselves. Also, in light of the recently developing racing event in India which has captured the interest of all the major colleges and students, offer specially designed courses to give students a head start as they begin to design & fabricate their cars for BAJA-SAE, SUPRA-SAE/F-SAE, Go-kart events.

Main Highlights of the 3 day / 24 hours Training Program:

- Statics of Automobile Engineering: 1 day (8 hours)
- Dynamic Balancing: 1 day (8 hours)
- Engine Designing: 1 day (8 hours)

1)Static: In this, static parts of automobile were discussed that how each and every component works.

- Fundamentals of chassis design
- Suspension system
- Braking system
- Engine working and fundamentals
- Types of chassis, braking, steering, suspension and their disadvantages and advantages

2) Dynamics: In this part dynamics of automobile is discussed in deep.

- Steering dynamics
- Braking performance triangles
- Derivation of drifting equation and turning equation
- Designing parameters for suspension designing
- Balancing of chassis, rigidity to weight ratio optimization, stress analysis.
- F.E. A
- Engine valve timing diagram

3) Practical: This was the implementation of the things that learned in above two parts

- Chassis designing and simulation
- Stress analysis on different F-SAE chassis
- Engine dynamics
- Hand on experience: Disassembly and assembly of a multi cylinder IC engine by participants.

Funds utilization

Fee collected From Students @1710/- x 90 Student =	<u>Rs.1, 53,900/-</u>
Fee per Student – Forenoon Snacks (1710 – 60) = Rs.1650/-	
Rs.1650/- x 90Students =	Rs.1, 48,500/-
Less Conveyance	Rs. 3200/-
Paid to Consultant	<u>Rs.1, 45,300/-</u>
Difference	Rs.8600/-

Expenditure

Forenoon-snacks	Rs. 6150/-
Afternoon-snacks	Rs. 3000/-
Conveyance	Rs. 3200/-
Miscellaneous	Rs. 2951/-
Total	<u>Rs.15,301/-</u>
Expenses beard by Consultant	Rs. 8000/-
Expenses beard by College	<u>Rs. 7301/-</u>

Coordinator
Md. Fakhruddin H.N.
Associate Professor

Convener
Dr. A.Rajasekhar
Head – ME