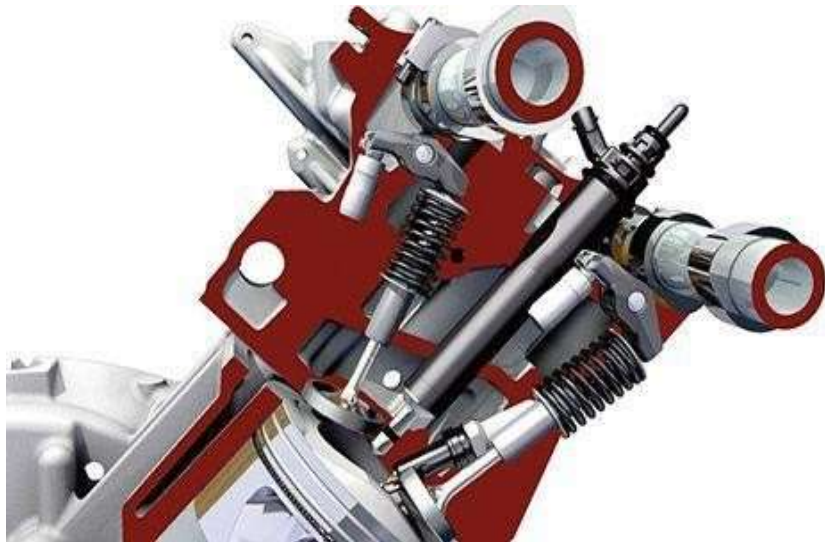




*Certificate Course
ON*

AUTOMOBILE MECHANICS & IC ENGINE

From 17th December 2018 to 22nd December 2018



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, NewDelhi)

Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M. Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering department was started in the year 2005 with intake strength of 60 seats, this was increased to 120 students in 2012 and this was increased to 180 students in 2013. The department has well qualified and trained faculty members. It has well equipped laboratories and workshops and includes a CAD/CAM laboratory where students are imparted training in advanced production techniques and design and analysis of machine elements.

The department of Mechanical Engineering has been contributing its humble share of the Mechanical Engineering graduates for national needs. Several of the graduates who have passed out of this department are occupying responsible positions in various Engineering Industries like Hindustan Shipyard Limited, Renault Nissan, Varun Motors, Tata Consultancy Services, HP and IBM and holding responsible positions in the premier educational institutes in and outside India.

CHIEF PATRON

Smt .M.Gnaneswari
President ,
Avanathi Educational Society

PATRON

Dr. C P V N J Mohan Rao
Principal,
Avanathi Institute Of Engineering And Technology

CHAIRMAN

Sri. V. Harikiran
Head of the Department
Mechanical Engineering

ABOUT WORKSHOP

Mainly focuses from Basics to Advanced concepts in Automobile Engineering. It covers chassis design, working of Suspension unit, Steering System, Braking unit, Transmission, Fuel Supply System, IC Engine and Advanced Technologies like ABS, EBD, DTS-Fi, MPFI, VVTI.

The internal combustion engine is a rich source of examples of almost every conceivable type of heat transfer. There are a wide range of temperatures and heat fluxes in the various components of the internal combustion engine. Internal combustion engines come in many sizes, from small model airplane engines with a 0.25 " (6 mm) bore and stroke to large stationary engines with a 12" (300 mm)

TOPICS TO BE COVERED

Chassis Design, Brief terminology - Multi point strut bar. Fender bar. Anti-roll bar, Types of chassis –Ladder frame chassis. Tubular space frame chassis. Monocoque frame chassis. Ulsab monocoque. Backbone frame chassis, Aluminium space frame. Carbon fibre monocoque, Suspension Unit - Brief terminology, Transmission system, Fuel Supply System and IC Engines.

For Registration, please contact Mr. A.N.S.Surya Prakash, Assistant Professor, Department of Mechanical Engineering.



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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 10/12/2018

We are happy to inform you that, Department of Mechanical Engineering, AIET is organizing six day certificate course on “Automobile Mechanics and IC Engines” from 17th December, 2018 to 22nd December, 2018 in virtual mode for all II B. Tech students. Interested candidates are directed to enrol above course on or before 16/12/2020. For further details contact Course Coordinator Mr. A. N. S. Surya Prakash, Assistant Professor, Mechanical Engineering.

Resource Person Details:

1. Sri R. Rudrabhiram,
Associate Professor,
Department of Mechanical Engineering,
VIGNAN'S Institute of Information & Technology,
Duvvada, Visakhapatnam.
2. Dr. S. Jai Kumar,
Assistant Professor,
Department of Mechanical Engineering,
GITAM College,
Rushikonda, Visakhapatnam.


V. Harikiran

HOD of Mechanical Engineering Department

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam-531113.

Copy to: Principal, AIET



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DEPARTMENT OF MECHANICAL ENGINEERING

A six-day workshop on

Automobile Mechanics & IC Engine

17th December – 22nd December 2018

Syllabus of the Workshop:

Chapter-1

- Introduction to Automobile IC Engines, Brief history. Changes over the years. Indian automobile industry.

Chapter-2

- Chassis Design, Brief terminology - Multi point strut bar. Fender bar. Anti-roll bar.

Chapter-3

- Types of chassis –Ladder frame chassis. Tubular space frame chassis. Monocoque frame chassis. Ulsab monocoque. Backbone frame chassis, Aluminium space frame. Carbon fibre monocoque.

Chapter-4

- Suspension Unit - Brief terminology – Weight Transfer, Jacking forces, Camber and Caster angle, Spring Rate

Types of suspensions – Dependent suspension, independent suspension

- Steering System - Ackerman Steering Principle, Steering Mechanisms, Rack and Pinion

Recirculating Ball Type, Worm and Sector, Understeer, Oversteer, Power Steering

Chapter-5

Transmission system- Flywheel, Clutch, Single Plate Clutch, Multi Plate Clutch, Cone Clutch, Centrifugal Clutch, Electromagnetic Clutch

- Gearbox- Constant mesh type, Synchromesh type, Sliding mesh type
Reverse and its working
Types of Transmission- Manual, Semi-Automatic, Automatic
CVT
- Differential
- 2WD, 4WD, AWD

Chapter-6

- Fuel Supply System
 - Fuel Filter
 - Carburettor

- Fuel Injector
- Spark Plug

IC Engine

- Types of IC Engine
- 4-Stroke Engine
- 2-Stroke Engine
- Engine Layout and working
- Valves and Valve Timing
- Engine Cooling
- Turbochargers
- Superchargers
- Latest Technologies
 - PGMFI
 - MPFI
 - CRDI

EXPECTED OUTCOMES

- This workshop will provide insight on IC Engines
- It will strengthen participants skills in Automobile Engines and components to solve various mechanical problems.
- Workshop will help to understand application of Automobile IC Engines in the multidisciplinary areas such as mechanical and advancements in Automobile Sector.



COORDINATOR



HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam - 531113.



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DEPARTMENT OF MECHANICAL ENGINEERING

Automobile Mechanics and IC Engines

From 17th December to 22nd December 2018

Schedule

Program Schedule

Session-1 (17/12/2018)

9.00 AM to 11.00 AM - Introduction to Automobile IC Engines, Brief history. Changes over the years.

Indian automobile industry.

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM - Chassis Design, Brief terminology

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 4.15 PM – Types of Chassis, Suspension Unit - Brief terminology

Session-2 (18/12/2018)

9.00 AM to 11.00 AM - Types of suspensions, Steering System

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM - Transmission system

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 4.15 PM – Gearbox and its Design and function

Session-3 (19/12/2018)

9.00 AM to 11.00 AM – Types of Transmission Systems

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM - Reverse and its working

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 4.15 PM – Gear Shifting Mechanism

Session-4 (20/12/2018)

9.00 AM to 11.00 AM – Breaking systems

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM - Various types of Breaking systems

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 4.15 PM – Differentials and its design and working

Session-5 (21/12/2018)

9.00 AM to 11.00 AM – Fuel Supply System

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM – IC Engine and types of IC engines

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 3.30 PM – Valves and valve timing, Latest Technologies

3.30 PM to 4.00 PM – Q&A Discussion

Session-6 (22/12/2018)

9.00 AM to 11.00 AM – Applications of IC Engines

11.00 AM to 11.15 AM – Tea Break

11.15 AM to 1.15 PM – Advancement in IC engines

1.15 PM to 2.15 PM – Lunch Break

2.15 PM to 3.30 PM – Future Scope

3.30 PM to 4.00 PM – Valedictory/ Feedback session



COORDINATOR



HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam - 531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TAMARAM (V), MAKAVAAPALEM (M),
VISAKHAPATNAM - 531113
DEPARTMENT OF MECHANICAL ENGINEERING
Automobile Mechanics & IC Engines
From 17-12-2018 to 22-12-2018
STUDENTS ATTENDANCE LISTS

| S.NO | ROLL NUMBER | NAME OF THE STUDENT | 17.12.2018 | 18.12.2018 | 19.12.2018 | 20.12.2018 | 21.12.2018 | 22.12.2018 |
|------|-------------|---------------------------------------|------------|------------|------------|------------|------------|------------|
| 1 | 16811A0301 | AKOJU DURGA PRASAD | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | 16811A0302 | AKULA KIRAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | 16811A0303 | ALLA SURYA NARAYANA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | 16811A0305 | ANGULARI VENKAT SUDHEER | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | 16811A0307 | BALAGA JAGADEESWARA RAO | ✓ | ✓ | ✓ | X | ✓ | ✓ |
| 6 | 16811A0308 | BOBBILI PURUSHOTHAM KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | 16811A0309 | BODDU TARUN | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | 16811A0311 | BOLEM KANAKA VARAPRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 | 16811A0312 | BUDDHA MOHAN VAMSI KRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 | 16811A0314 | CHINTAKAYALA MANIKANTA SWAMY | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | 16811A0316 | DASARI MANIKANTA RAJULU | ✓ | ✓ | X | ✓ | ✓ | ✓ |
| 12 | 16811A0317 | DOLA DILEEP KUMAR | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 13 | 16811A0318 | DULLA GANGADHAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14 | 16811A0319 | EERLA GANESH | ✓ | ✓ | ✓ | ✓ | ✓ | X |
| 15 | 16811A0321 | GADE SAI KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 | 16811A0322 | GALLA YESWANTH NAGA KUMAR | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17 | 16811A0323 | GANTA JOHN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | 16811A0324 | GANTLA DURGA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19 | 16811A0325 | GAVIREDDI DATTASAI | ✓ | ✓ | ✓ | X | ✓ | ✓ |
| 20 | 16811A0327 | GEDDAM RAMESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21 | 16811A0328 | GORLI SAI KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22 | 16811A0329 | JANAPALA SATYA GANESH | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | 16811A0330 | JEERU AYYAPPA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24 | 16811A0332 | KANCHI SHANMUKHA TEJA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 25 | 16811A0333 | KARANAM SATHISH | ✓ | ✓ | ✓ | ✓ | X | ✓ |
| 26 | 16811A0334 | KOILADA MANIKUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27 | 16811A0336 | KOSURU CHANDRA SEKHAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | 16811A0337 | KOYYA RAVI TEJA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 29 | 16811A0338 | KUPPA VENKATESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | 16811A0339 | LINGAM JOSHI SAI JASWANTH | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | 16811A0341 | MALLA KUMAR | ✓ | ✓ | X | ✓ | ✓ | ✓ |
| 32 | 16811A0343 | MATTE VARA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | 16811A0344 | MEESALA SHYAM PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | 16811A0345 | MOHAMMED SHABZAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | 16811A0347 | MUPPIDI GIRI SAI VENKATA DURGA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | 16811A0348 | NAGIREDDY LEELA SATYA PRASANNA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 37 | 16811A0349 | NAGULAPALLE SAI KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 38 | 16811A0350 | NAKKA SAIRAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 39 | 16811A0352 | NALLALA CHARAN | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 40 | 16811A0353 | NAMMINA SOMESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 41 | 16811A0354 | NEERUKONDA PRABHU DEVA | ✓ | ✓ | ✓ | ✓ | ✓ | X |
| 42 | 16811A0355 | NETHINTI THARUN KUMAR | ✓ | ✓ | ✓ | X | ✓ | ✓ |
| 43 | 16811A0357 | PAILA PAVAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 44 | 16811A0358 | PAKKURTHI BALAJI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45 | 16811A0359 | PALLA GANESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 46 | 16811A0360 | PALLA VENKATESH | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 47 | 16811A0362 | PANNASA BHASKAR RAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 48 | 16811A0363 | PEELA ARUN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 49 | 16811A0364 | PENTAKOTA PHANI KUMAR | ✓ | ✓ | X | ✓ | ✓ | ✓ |
| 50 | 16811A0365 | PERLA HEMANTH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 51 | 16811A0366 | PETLA PAVAN KUMAR | ✓ | ✓ | ✓ | X | ✓ | X |
| 52 | 16811A0368 | POTHURAJU NANDA KISHOR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 53 | 16811A0369 | POTTI PRATAP | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 54 | 16811A0370 | POTTI SOMESWARA RAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 55 | 16811A0371 | RAPETI AVINASH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 56 | 16811A0372 | RAVADA RAJARAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 57 | 16811A0374 | RUNKU RAMBABU | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| 58 | 16811A0375 | SARAGADAM GANESH | ✓ | ✓ | ✓ | X | ✓ | ✓ |
| 59 | 16811A0376 | SENAPATHI HEMANTH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | | | |
|-----|------------|---|---|---|---|---|---|---|
| 60 | 16811A0377 | SHAIK MANSOOR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 61 | 16811A0378 | SOORA SAI PAVAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 62 | 16811A0380 | SURISSETTI VIJAYA SIVA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 63 | 16811A0381 | TALARI MAHESH | x | ✓ | ✓ | ✓ | ✓ | ✓ |
| 64 | 16811A0382 | TAMARANA RAVITTEJA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 65 | 16811A0383 | THATIKONDA NAGA SAI KIRAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 66 | 16811A0384 | THOKADA SRINU VASU | ✓ | ✓ | x | ✓ | ✓ | ✓ |
| 67 | 16811A0386 | VAKADA NAGA RAJU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 68 | 16811A0387 | VANGAPANDU JAGAN SAI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 69 | 16811A0388 | VEGI HAREESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 70 | 16811A0389 | venu SAI KRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 71 | 16811A0390 | VINDULA KALYAN KUMAR | ✓ | ✓ | ✓ | ✓ | x | ✓ |
| 72 | 16811A0391 | VOLLU HANISH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 73 | 16811A0392 | VYBOINA ASHOK KUMAR | ✓ | ✓ | x | ✓ | ✓ | ✓ |
| 74 | 16811A0393 | YALAMANCHILI VENKATA PRUDHVI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 75 | 16811A0394 | YARRAMSETTI HEMANTH SAI PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 76 | 16811A0395 | YEDURU HARISH | x | x | ✓ | ✓ | ✓ | ✓ |
| 77 | 16811A0396 | YELLAPU VIJAY KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 78 | 16811A0397 | INDALA PRASAD | ✓ | ✓ | ✓ | x | ✓ | ✓ |
| 79 | 16811A0398 | JALLI VENKATESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 80 | 17815A0301 | ALLA MEGHANA SANTHI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 81 | 17815A0302 | ANGA RAJESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 82 | 17815A0303 | APPANA MAHENDRA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 83 | 17815A0304 | ARJILLI RAJASEKHAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 84 | 17815A0305 | BALLA RAHUL | x | ✓ | ✓ | ✓ | ✓ | ✓ |
| 85 | 17815A0306 | BONDALA HARISH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 86 | 17815A0307 | CH BHAVANI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 87 | 17815A0308 | CH YESWANTH DURGA CHELLA RAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 88 | 17815A0309 | CHEEPURUPALLI RAMUDU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 89 | 17815A0310 | CHINTAKAYALA VENKATA VARAHA SATYA PRAKASH | ✓ | x | ✓ | ✓ | ✓ | ✓ |
| 90 | 17815A0311 | DAKARAPU DURGA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 91 | 17815A0312 | DANIMIREDDI ASHOK | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 92 | 17815A0313 | DODDI LAXMIKANTH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 93 | 17815A0314 | DUPPATLA VINAY | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 94 | 17815A0315 | GORLI PAWAN KUMAR | ✓ | ✓ | ✓ | ✓ | x | ✓ |
| 95 | 17815A0316 | GUDIVADA TEJA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 96 | 17815A0317 | JAYACHANDRA NAVEEN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 97 | 17815A0318 | KADIYAM PRAVEEN KUMAR | x | ✓ | ✓ | ✓ | ✓ | ✓ |
| 98 | 17815A0319 | KAKARA ANVESH | ✓ | ✓ | ✓ | ✓ | ✓ | x |
| 99 | 17815A0320 | KAMBAM BHASKAR REDDY | ✓ | ✓ | x | ✓ | ✓ | x |
| 100 | 17815A0321 | KANDRAKOTA KRANTHI KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101 | 17815A0322 | KANDREGULA SURESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 102 | 17815A0323 | KANDREGULA THANUJ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 103 | 17815A0324 | KANNAM SATYA VENKATA SAI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 104 | 17815A0325 | KARI RAJESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 105 | 17815A0326 | KARRI VENKATESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 106 | 17815A0327 | KINTADA VENKATESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 107 | 17815A0328 | KONA HARI VAMSI RAM | ✓ | ✓ | ✓ | x | ✓ | ✓ |
| 108 | 17815A0329 | KONDA MANIKANTA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 109 | 17815A0330 | KRISHNA BANDI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 110 | 17815A0331 | LANKA MOULI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 111 | 17815A0332 | MAJJI HEMA SATYA SAI | ✓ | x | ✓ | ✓ | ✓ | ✓ |
| 112 | 17815A0333 | MALLA JAYA PRADEEP CHANDRA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 113 | 17815A0334 | MAMIDI SHYAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 114 | 17815A0335 | MANGALAGIRI SHANMUKA SURYA SAI | x | ✓ | ✓ | ✓ | ✓ | ✓ |
| 115 | 17815A0336 | MARISSETTI ARVINDA MOULI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 116 | 17815A0337 | MRUTYUNJAY SHUKLA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 117 | 17815A0338 | MYLAVARAPU SUMANTH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 118 | 17815A0339 | NAKKA APPALARAJU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 119 | 17815A0340 | NAKKA HARI KRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 120 | 17815A0341 | NELLURI SAI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 121 | 17815A0342 | PAILA JEEVAN KUMAR | x | ✓ | ✓ | ✓ | ✓ | ✓ |
| 122 | 17815A0343 | PALUPINI GANESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 123 | 17815A0344 | PALLI MURALI | ✓ | ✓ | ✓ | x | ✓ | ✓ |
| 124 | 17815A0345 | PAPPU BALA GANAPATHY | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 125 | 17815A0346 | PEDAPATI NAVEEN | ✓ | x | ✓ | ✓ | ✓ | x |

| | | | | | | | | |
|-----|------------|-------------------------------|---|---|---|---|---|---|
| 126 | 17815A0347 | PEDAPATI VENKATACHARI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 127 | 17815A0348 | PITTA KOTESWARA RAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 128 | 17815A0349 | POLARAPU RAJU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 129 | 17815A0350 | RAMANA OSIPALLI | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ |
| 130 | 17815A0351 | RAYI MANI KANTA | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 131 | 17815A0352 | REDDI APPALANAIDU | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 132 | 17815A0353 | REDDI GOPAL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 133 | 17815A0354 | REDDY GOVINDARAO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 134 | 17815A0355 | S KARTHIK KUMAR | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ |
| 135 | 17815A0356 | SALAPU LAXMISRINIVAS | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 136 | 17815A0357 | SAMBARU BHARGAVRAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 137 | 17815A0358 | SARAGADAM JAYA KRISHNA MURTHY | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 138 | 17815A0359 | SARAGADAM SATHEESH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 139 | 17815A0360 | SEERAM RAM KUMAR | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| 140 | 17815A0361 | SUDIKONDA MANIKANTA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 141 | 17815A0362 | THAMARANA SIVA KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 142 | 17815A0363 | THUTTA DURGA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 143 | 17815A0364 | VANTAKULA SIVA KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 144 | 17815A0365 | VIJAYAKUMAR BEHARA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 145 | 17815A0366 | VOODI NARENDHRA | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ |
| 146 | 17815A0367 | ADARI DURGA PRASANTH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 147 | 17815A0368 | SONTENA BRAHMAJI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |


COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Avanathi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam-531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs _____ of _____
_____ has participated in the Certificate Course entitled
on “**Automobile Mechanics and IC Engines**” during from 17th December 2018 to 22nd
December 2018 in Department of Mechanical Engineering.

Coordinator

HOD

Principal



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

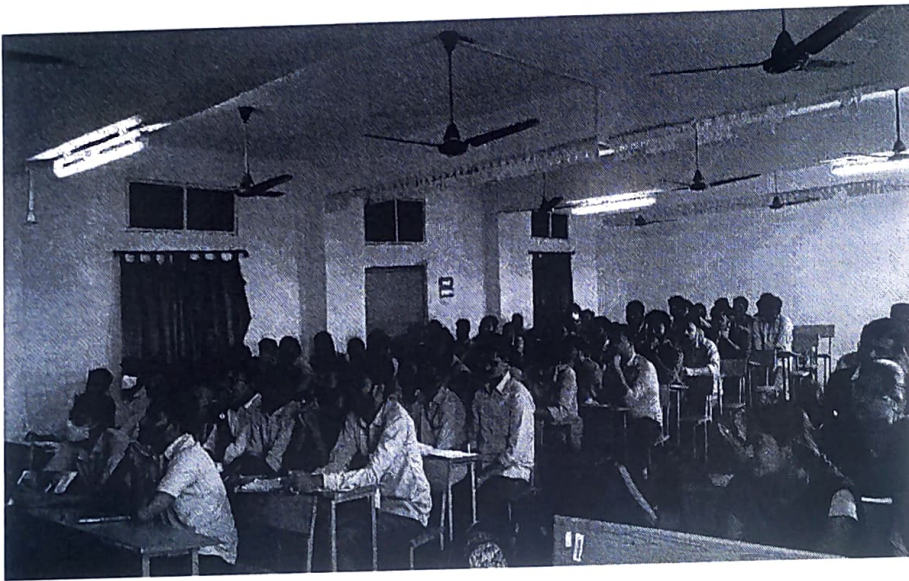
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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF MECHANICAL ENGINEERING

A 5-Day Workshop on

Automobile Mechanics & IC Engines

Dated on - 17th December 2018 to 22nd December 2018




COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam - 531113.



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Department of Mechanical Engineering

Dt:23/12/2018

BRIEF REPORT

Department of Mechanical Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on “**AUTOMOBILE MECHANICS & IC ENGINE**” from 17th DEC 2018 to 22nd DEC 2018.

We had Mr. R. Rudrabhiram, Associate Professor, from VIGNAN'S College, as the speaker to explain each and every detail Introduction of Automobile IC Engines in Industrys. He explained the need for Chassis Design, working of Suspension System, Steering system, later he discussed about the types of Chassis, and the major advantage to more horsepower developed per unit weight and low cost compared to that of external combustion engine.

We had Dr. S. Jai Kumar, Assistant Professor, from GITAM College, he explain about Chassis Design, Transmission system, IC Engines. He gave the limitations that fuel used is very expensive and not suitable for large scales etc. These are generally used for Air Crafts and motor boats, Some of the topics are focused during the course Suspension system, steering system, Transmission system, Fuel supply system, later he explained about Carbon fiber monocoque, various types of breaking systems. Finally he concluded with the real time applications of IC Engines in various automobile industries.


Coordinator


Head of the Department

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Narsipatnam - 531113.