VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with '[redacted]'A++' Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses
Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad 500 090, TS, India.
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761
E-mail: postbox@vnrvjiet.ac.in, Website: www.vnrvjiet.ac.in

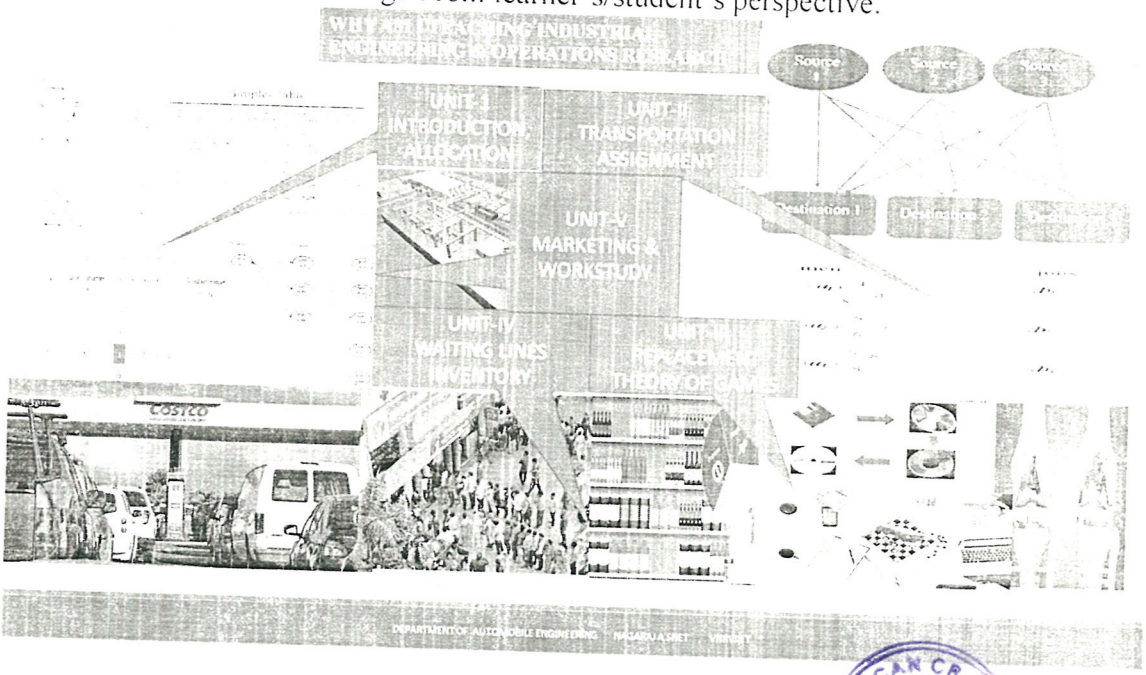
TAMASOMA JYOTIRGAMAYA
Estd. 1995

Industrial Endorsement

This is to ensure that the following **WIT & WIL**. scenario titled "solving the business and real life problems" can be used as a teaching-learning methodology for the subject titled "**INDUSTRIAL ENGINEERING & OPERATIONS RESEARCH**" for B.Tech IV year I Semester of Automobile Engineering. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

WIT & WIL is a teaching – learning methodology developed by **VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**, which aims at bringing the gap between institutional academic systems and industrial applications.

WIT & WIL – "Why am I teaching-What I am teaching? & Why am I learning-What I am learning?" is defined as an active methodology of teaching and learning with "Why am I teaching-What I am teaching?" from teacher's perspective and "Why am I learning what I am learning? From learner's/student's perspective.



DECCAN CRANES DHARWAD
Sign:

Stamp / Signature of Endorsing Industry

City Office : Vignana Jyothi, H.No. 7-1-4, Adjacent to Colorama Printers, Begumpet, Hyderabad - 500 016.
Phone:040-2374 0538, 2374 0558 Fax:040-2373 1555, E.mail : vignanajyothi@hotmail.com

TAMASOMA JYOTIRGAMAYA
Estd. 1995

VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A' Grade 'A++' Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses
Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad 500 090, TS, India.
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761
E-mail: postbox@vnrvjiet.ac.in, Website: www.vnrvjiet.ac.in

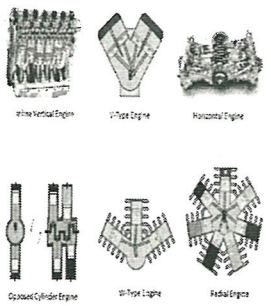
Industrial Endorsement

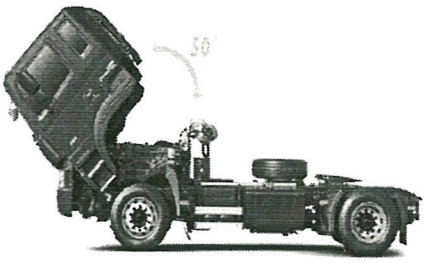
This is to ensure that the following WIT & WIL, scenario titled "Fundamentals of Automobile Engineering" can be used as a teaching-learning methodology for the subject titled "Principles of Automobile Engineering" for B.Tech III year I Semester (Open Elective-I) of Engineering. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

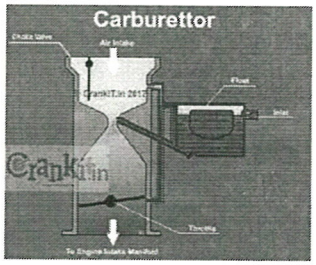
WIT & WIL is a teaching – learning methodology developed by VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, which aims at bridging the gap between institutional academic systems and industrial applications.

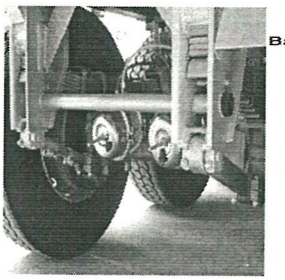
WIT & WIL – "Why am I teaching What I am teaching? & Why am I learning What I am learning?" is defined as an active methodology of teaching and learning with "Why am I teaching What I am teaching?" from teacher's perspective and "Why am I learning what I am learning? "From learner's /student's perspective.

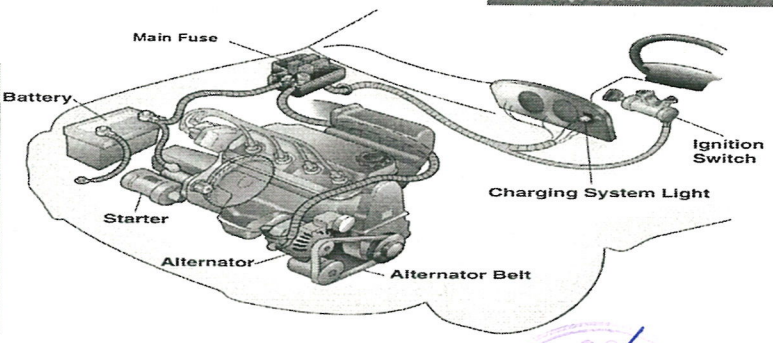
SCENARIO











Signature / Stamp of Endorsing Industry

Industry Endorsement

This is to endorse that the following WIT & WIL scenario titled "**Thermodynamics – WIT & WIL Scenario**" can be used as a teaching-learning methodology for the subject titled "Thermodynamics" for the students of II B.Tech I Semester Automobile Engineering.

WIT & WIL Methodology is a teaching-learning process of VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, which would aim to bridge the gap between institutional academic systems and industry requirements. The definition of "WIT & WIL" method explained as an active methodology of teaching and learning activity with "Why am I Teaching & What I am Teaching" from Teacher's perspective. From student's perspective, it is "Why am I Learning & What I am Learning".

SCENARIO

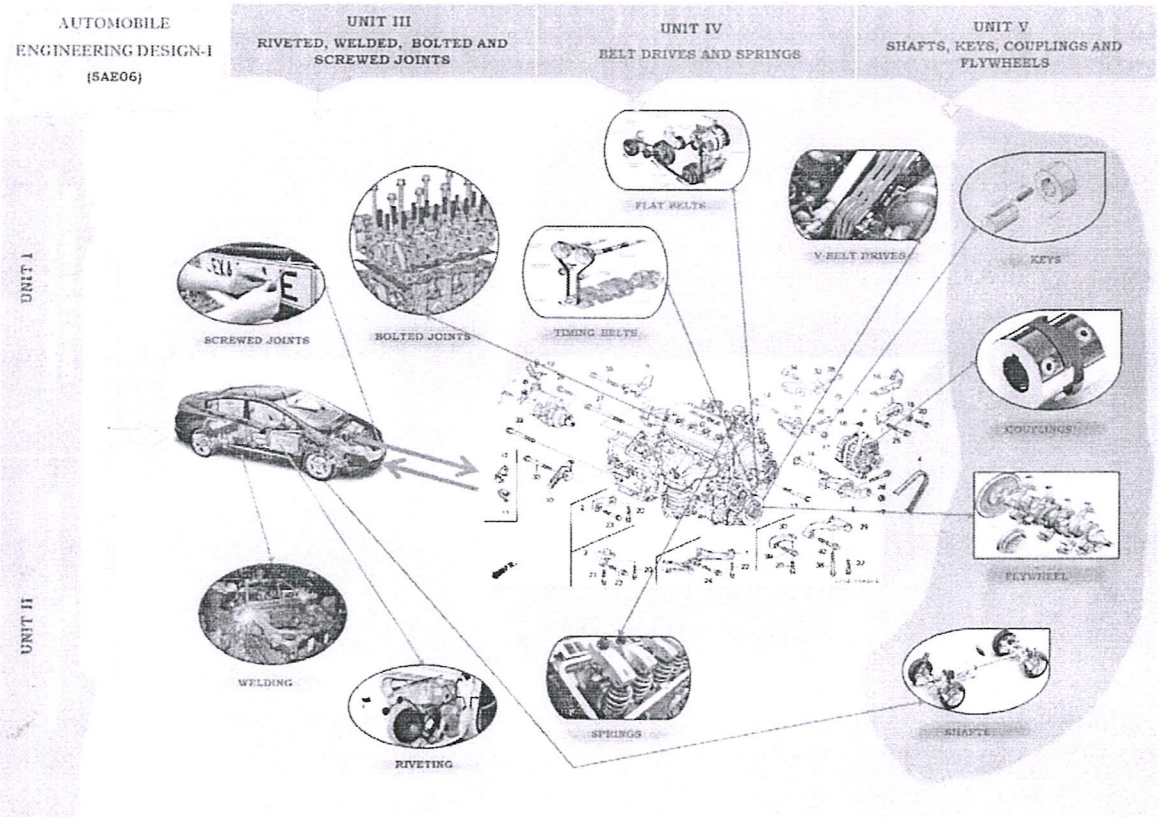
Signature with stamp of Endorsing Industry

Industry Endorsement

This is to endorse that the following WIT & WIL scenario titled "Designing **of Automobile components – WIT & WIL Scenario**" can be used as a teaching-learning methodology for the subject titled "Automobile Engineering Design-I" for the students of **III B.Tech I Sem.** Automobile Engineering.

WIT & WIL Methodology is a teaching-learning process of VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, which would aim to bridge the gap between institutional academic systems and industry requirements. The definition of "WIT & WIL" method explained as an active methodology of teaching and learning activity with "Why am I Teaching & What I am Teaching" from Teacher's perspective. From student's perspective, it is "Why am I Learning & What I am Learning".

Scenario – Designing of Automobile components
Subject: Automobile Engineering Design-I



KRANTHI KATIKANENI
Sr. Engineer
Mahindra & Mahindra
MRV, Chennai
Katikaneni.kranthi2@mahindra.com

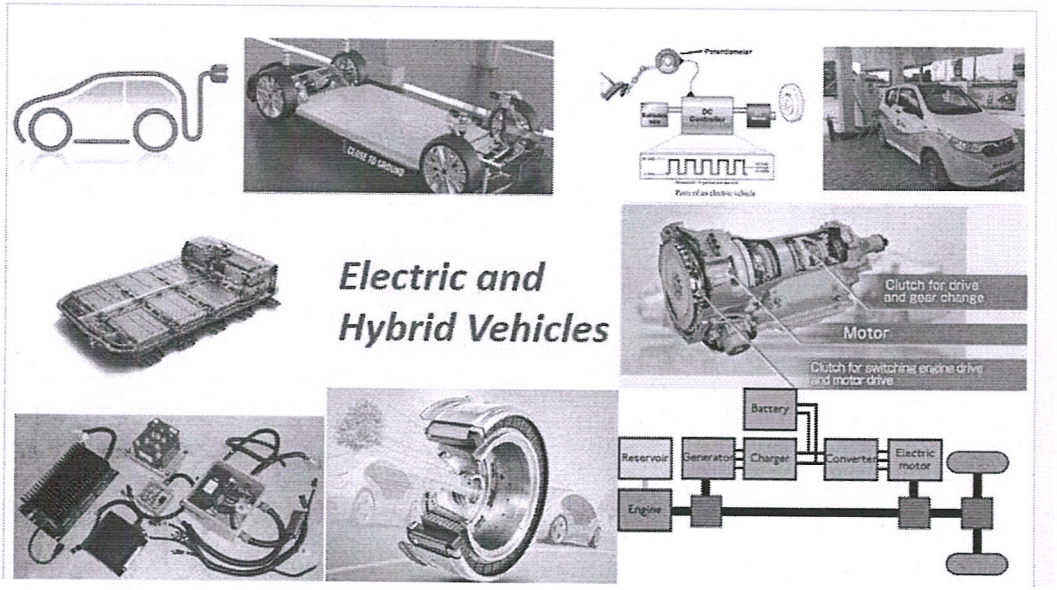
Industrial Endorsement

This is to ensure that the following WIT & WIL, scenario titled "Alternate power train" can be used as a teaching-learning methodology for the subject titled "Electric and Hybrid vehicles" for B.Tech IV year I Semester of Automobile Engineering. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

WIT & WIL is a teaching – learning methodology developed by VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, which aims at bridging the gap between institutional academic systems and industrial applications.

WIT & WIL – "Why am I teaching What I am teaching? & Why am I learning What I am learning?" is defined as an active methodology of teaching and learning with "Why am I teaching What I am teaching?" from teacher's perspective and "Why am I learning what I am learning? "From learner's /student's perspective.

SCENARIO



Koti Jeevith

Signature / Stamp of Endorsing Industry

Koti Jeevith
ZF Production Systems &
Manufacturing Engineer
C/o ZF Hero Chassis Systems Pvt. Ltd.
Oragadam, Chennai -
Tamil Nadu
India.

Industry Endorsement

This is to endorse that the following WIT & WIL scenario titled "**Automotive Infotronics – WIT & WIL Scenario**" can be used as a teaching-learning methodology for the subject titled "Thermodynamics" for the students of **IV B.Tech I Semester** Automobile Engineering.

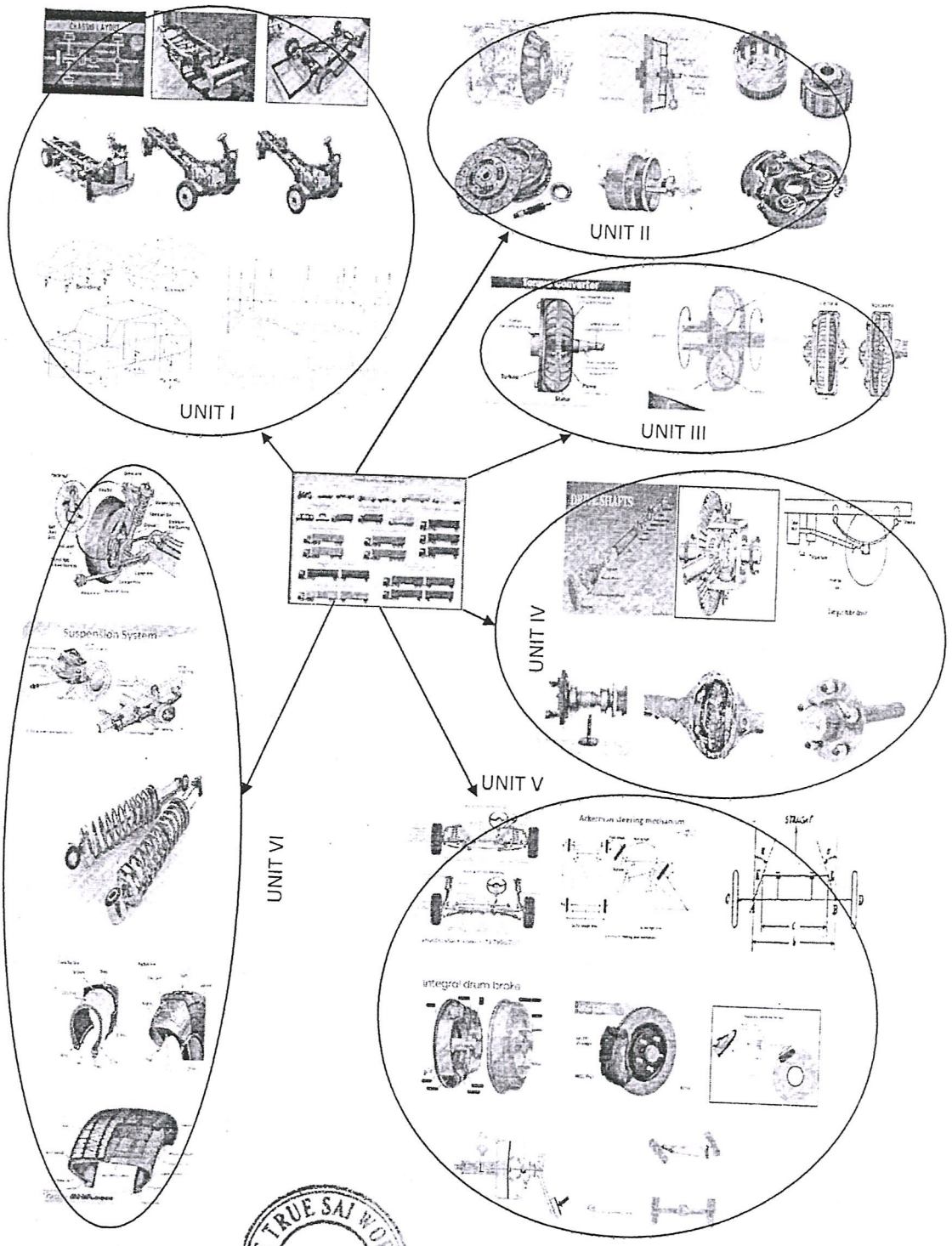
WIT & WIL Methodology is a teaching-learning process of VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, which would aim to bridge the gap between institutional academic systems and industry requirements. The definition of "WIT & WIL" method explained as an active methodology of teaching and learning activity with "Why am I Teaching & What I am Teaching" from Teacher's perspective. From student's perspective, it is "Why am I Learning & What I am Learning".

Scenario - Drivers Behaviour

Subject: Automotive Infotronics

J. CHIDANANDAPPA
M. Tech
Scientific Engineer / SE
National Remote Sensing Centre
ISRO / Dept of Space
Balanagar, Hyderabad-500 037

Signature with stamp of Endorsing Industry



THE TRUE SAI WORKS
417 A/1A, Pathanapalli Village,
Chennai Road,
Opp. Tamil Nadu Hotel
KRISHNAGIRI - 635 001.
SAI 004, 005.

THE TRUE SAI WORKS
Pin-635001
KRISHNAGIRI

Industrial Endorsement

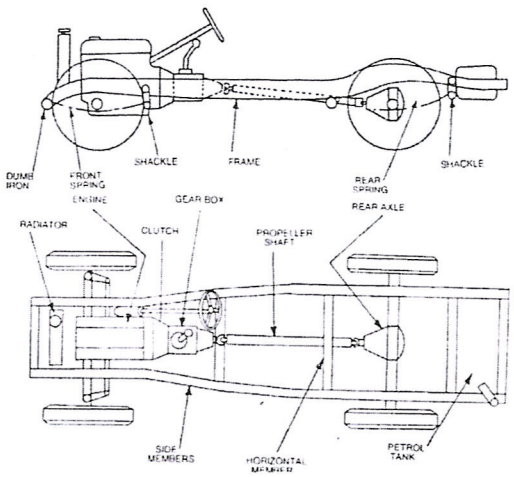
This is to ensure that the following WIT & WIL, scenario titled "Automotive chassis" can be used as a teaching-learning methodology for the subject titled "Automotive chassis" for B.Tech III year I Semester of Automobile Engineering. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

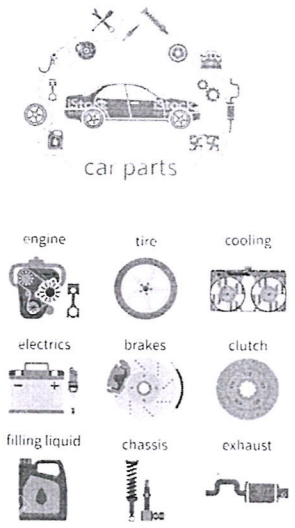
WIT & WIL is a teaching – learning methodology developed by VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, which aims at bridging the gap between institutional academic systems and industrial applications.

WIT & WIL – "Why am I teaching What I am teaching? & Why am I learning What I am learning?" is defined as an active methodology of teaching and learning with "Why am I teaching What I am teaching?" from teacher's perspective and "Why am I learning what I am learning? "From learner's /student's perspective.

SCENARIO

WHY AM I TEACHING AUTOMOTIVE CHASSIS





Signature /Stamp of Endorsing Industry

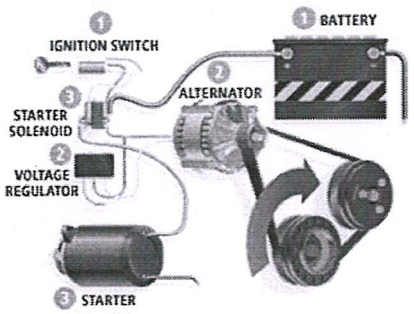
Ramesh Nallavelli
[Lead Engineer – ABB]

Industrial Endorsement

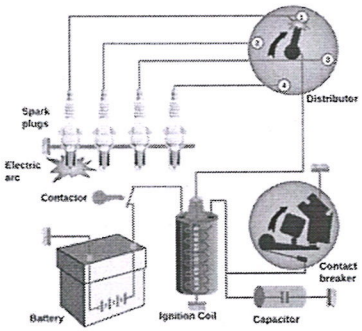
This is to endorse that the following WIT & WIL scenario titled "Electrical and Electronic systems in a Car" can be used as a teaching-learning methodology for the subject titled "Automotive Electrical and Electronics" for the students of B.Tech. III Year (Automobile Engineering).

WIT & WIL Methodology is a teaching-learning process of VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad which would aim to bridge the gap between institutional academic systems and industry requirements. The definition of "WIT & WIL" method explained as an active methodology of teaching and learning activity with "Why am I Teaching & What I am Teaching" from Teacher's perspective. From student's perspective, it is "Why am I Learning & What I am Learning".

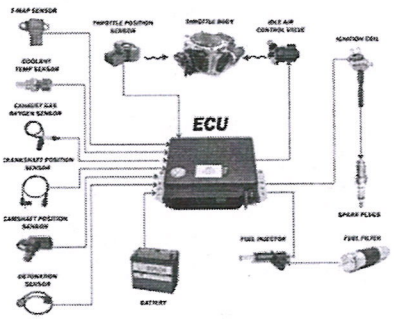
Scenario: Electrical and Electronic Systems in a Car



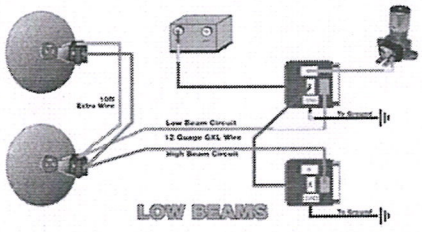
Starting and Charging System



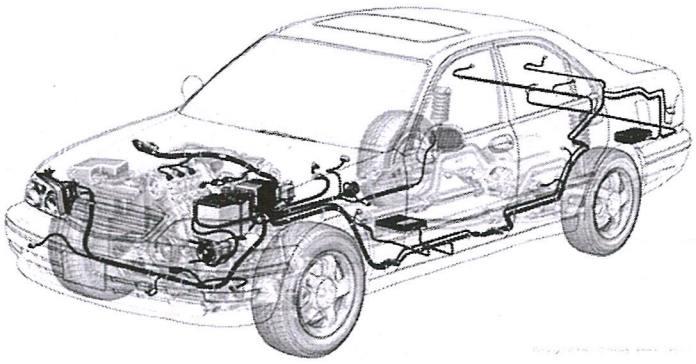
Ignition System



Electronic Engine Control, Sensors & Actuators



Lighting System



Signature with stamp

Name: B.S KRISHNA PRASAD

Designation: General Manager - Engineering

Organisation & Place: Tech Mahindra, Hyderabad

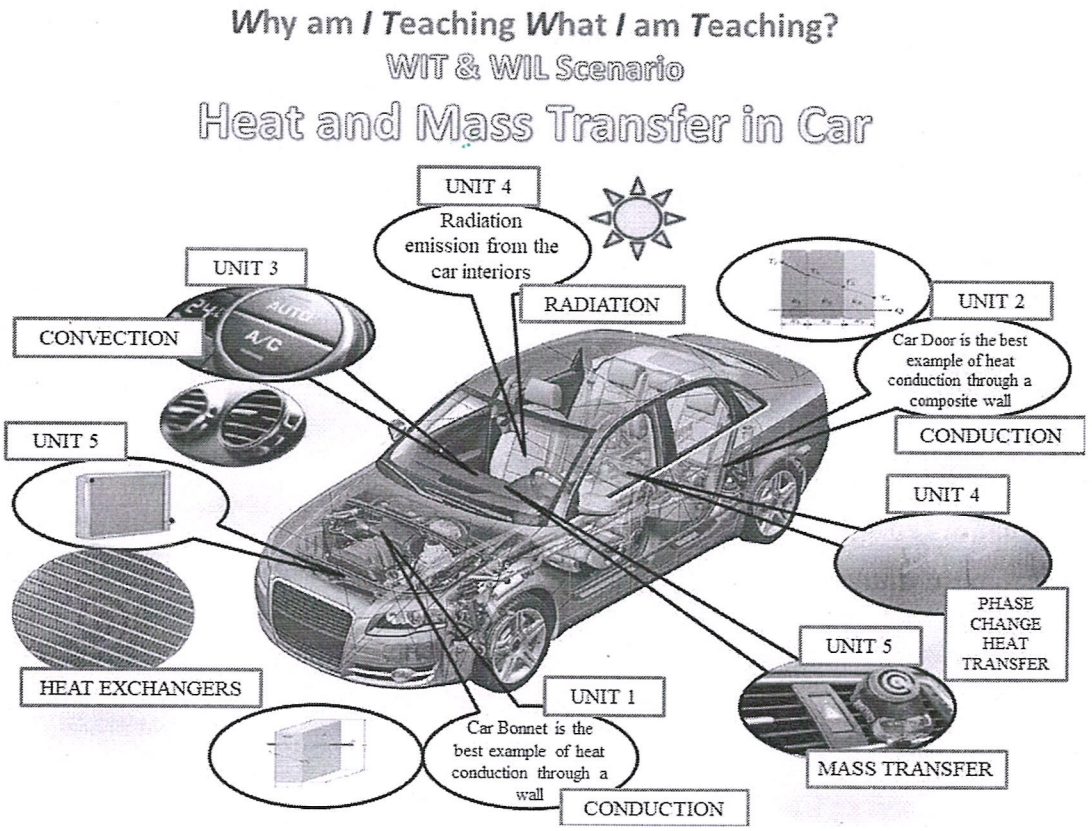
E-mail: krishnaprasad.buravelli@techmahindra.com

Industry Endorsement

This is to endorse that the following WIT & WIL scenario titled **"Heat and Mass Transfer in Car"** can be used as a teaching-learning methodology for the subject titled **"Heat and Mass Transfer"** for **B. Tech III Year I Semester of Automobile Engineering**. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

WIT & WIL is a teaching-learning methodology developed by VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, which aims at bridging the gap between institutional academic systems and industrial applications.

WIT & WIL – "Why am I Teaching what I am teaching? & Why am I Learning what I am learning?" is defined as an active methodology of teaching and learning with "Why am I Teaching what I am teaching?" from teacher's perspective and "Why am I Learning what I am learning?" from learner's / student's perspective.



Stamp / Signature of Endorsing Industry

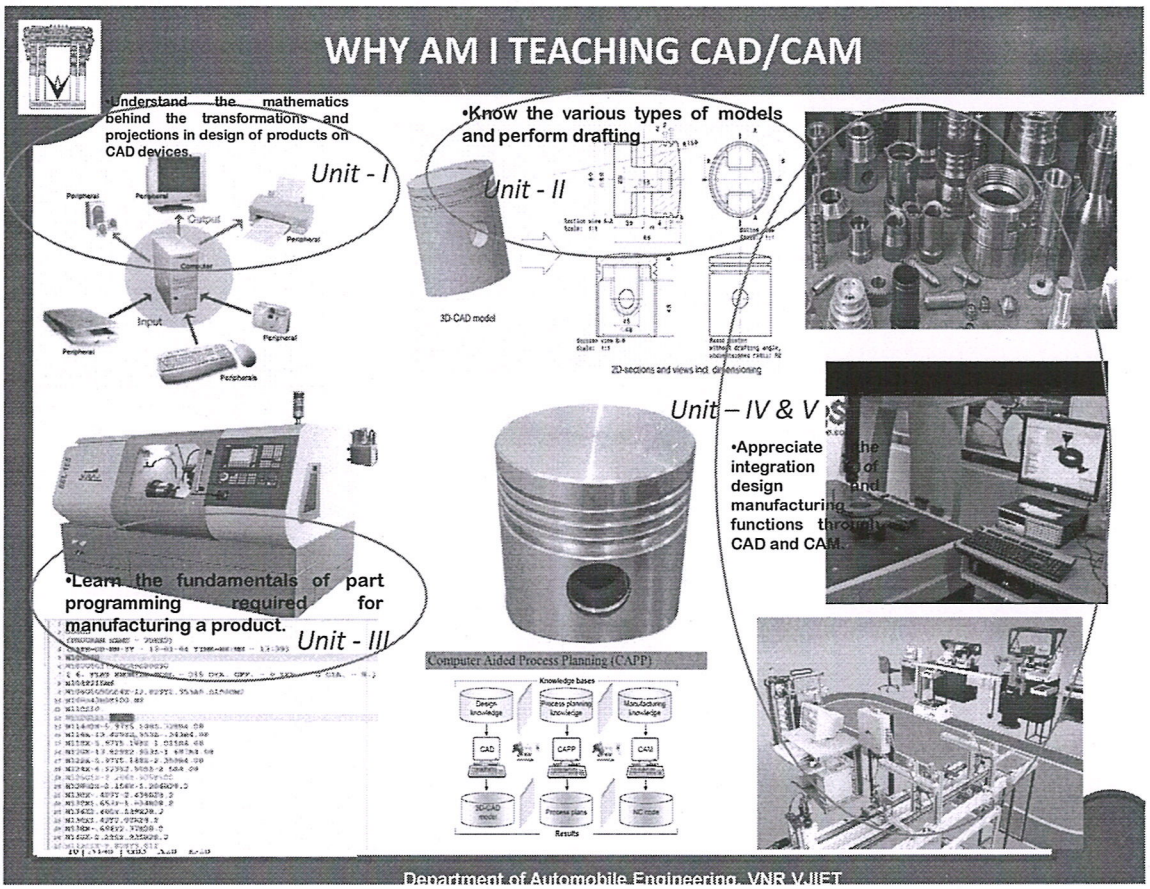
J. CHIDANANDAPPA
M. Tech
Scientist / Engineer 'SE'

Industry Endorsement

This is to endorse that the following WIT & WIL scenario titled "**Computer Aided Design and Manufacturing of Industrial Components**" can be used as a teaching-learning methodology for the subject titled "CAD/CAM" for the students of IV B.Tech I Semester Automobile Engineering.

WIT & WIL Methodology is a teaching-learning process of VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, which would aim to bridge the gap between institutional academic systems and industry requirements. The definition of "WIT & WIL" method explained as an active methodology of teaching and learning activity with "Why am I Teaching & What I am Teaching" from Teacher's perspective. From student's perspective, it is "Why am I Learning & What I am Learning".

SCENARIO



Signature with stamp of Endorsing Industry

GM, Tech — IES

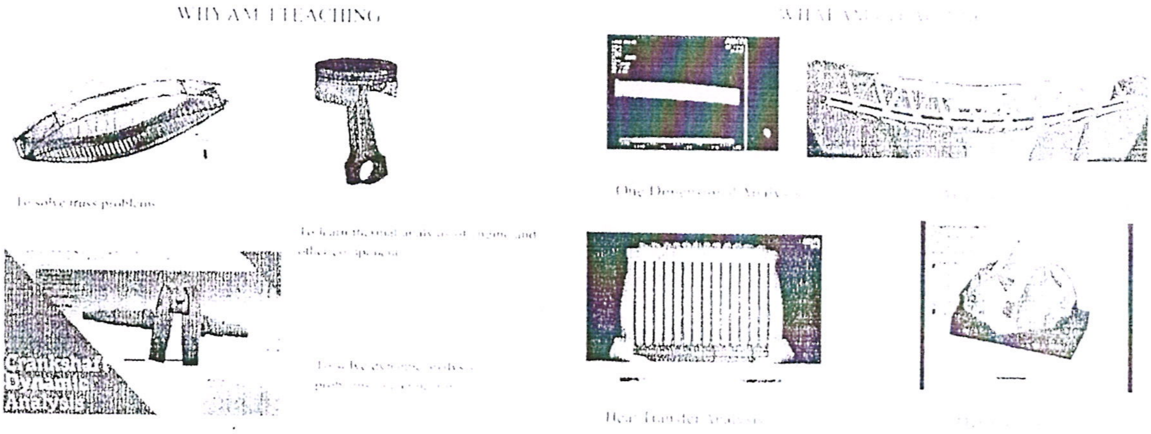
Industrial Endorsement

This is to ensure that the following WIT & WIL, scenario titled "Finite Element Method" can be used as a teaching-learning methodology for the subject titled "Finite Element Analysis" for B.Tech. IV year I Semester of Automobile Engineering. The applications mentioned in the scenario are very much related to the subject and the concepts are fittingly used in the field as well.

WIT & WIL is a teaching – learning methodology developed by VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, which aims at bridging the gap between institutional academic systems and industrial applications.

WIT & WIL – "Why am I teaching What I am teaching? & Why am I learning What I am learning?" is defined as an active methodology of teaching and learning with "Why am I teaching What I am teaching?" from teacher's perspective and "Why am I learning what I am learning? "From learner's /student's perspective.

SCENARIO

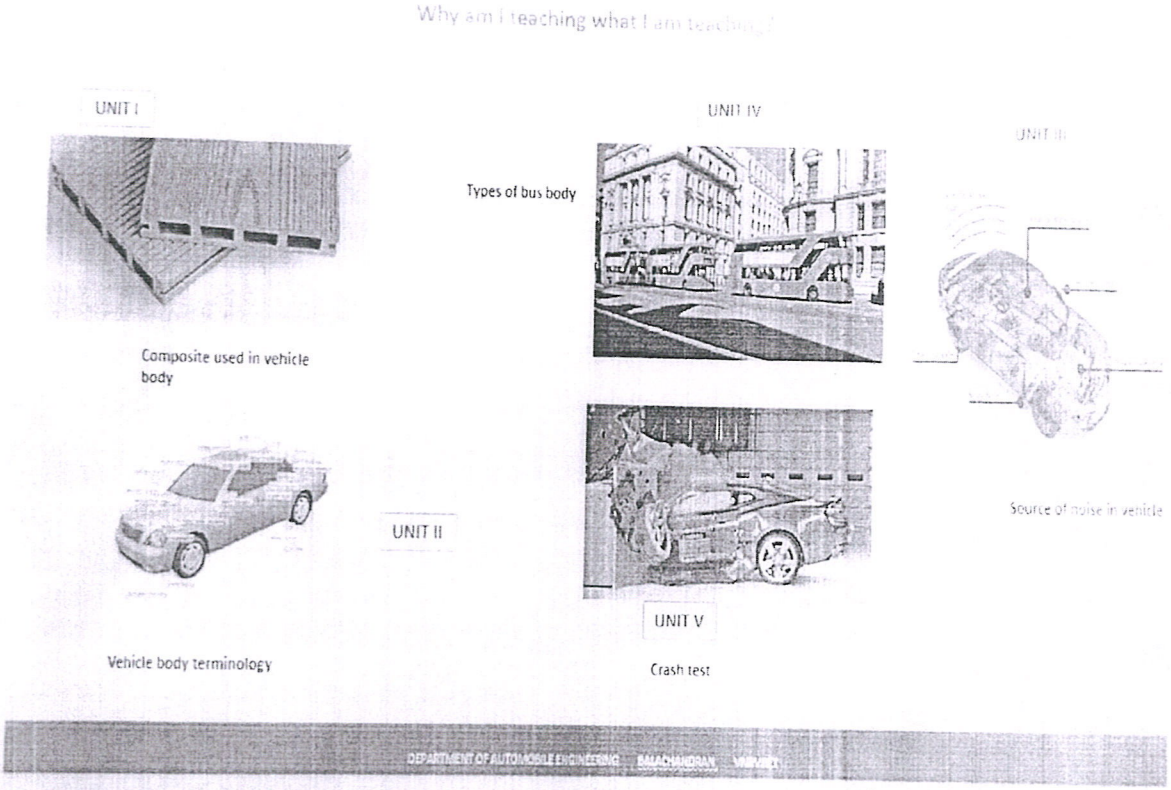


Signature / Stamp of Endorsing Industry

Y. SHIVA PRASAD
MD, Yatna Engg Solutions (P) LTD
Hyderabad.

Industry Endorsement

This is to express that the Scenario design of the subject and the applications mentioned for the subject by S.Balachandran for the subject of vehicle body engineering and safety taught to B.Tech. Students of Automobile Engineering, IV Year. I Semester is of relevance to real life applications.



unit-I deals with material used for developing car body parts. Unit II deals with different types of car body exist for commercial use and driver visibility for optimum driving range Unit-III deals with different types of bus body and commercial body for mobility purpose. In Unit-IV explains the expain the safety rules, crash test, and crash worthiness of vehicle . Unit-V deals with noise vibration harshness sources and controlling method in vehicle.

Stamp / Signature of Endorsing Industry

[V. M. Karthikeyan
Senior Design Engineer
Tata Motors, Pune]