National Technology Awareness Campaign

OPPORTUNITY TO WORK ON ADVANCED R&D TOOLS AND BECOME A PROFESSIONAL IN AUTOMOBILE INDUSTRY

In Association & Certified by: Wikipedia, SGT International, CIS India, Steinbichler (Germany), CadtechSolutions, Rapidform (Korea), WizIQ

FOR REGISTRATION VISIT:
www.metawinggroups.com/registration-for-workshop/

College of Engineering
Guindy Anna University

Date: 4th-5th February, 2013
Last Date of Registration: 1st February, 2013

Contact Details:
G. Suresh +91 9597641113
Sajin George +91 7206000398
L. S. Gokul +91 9715448885

Fees: 1400/-

Email: info@metawinggroups.com
Website: www.metawinggroups.com
www.annauniv.edu
www.metawing.com

Become an Affiliate!
- Get up to 25% discount on summer Intern 2013
- Enhance your Communication, Marketing and Networking Skills
- Live projects in Industrial Machinery, Auto & Engine Design
- Opportunity to get your research paper sponsored at an IETM Project Now

Highlights
- Participate in an Industry Endorsed Course
- Customized Kit containing Course Books, Handbook, Case Studies etc.
- One year membership of SGT International, 6 month subscription of Metawing
- Learn Rapid Prototyping using 3D Scanner (White Light Scanner & Laser Scanner)
- Use CMM Machine (Co-ordinate measuring machines) for product development
- Become a Pro and Learn Reverse Engineering of Automotive Body Design & Product Development
- Get Software worth Rs. 12 Lakhs Educational License of Reverse Engineering Software

Course Curriculum
- Section 1: Import & Region Group
- Section 2: Accuracy & Analyzer
- Section 3: CMM, Coordinate & Spatial Analysis
- Section 4: CAD/CAE/3D Printing: Practical Session
- Section 5: Rapid Prototyping using 3D Scanner
- Section 6: Reverse Engineering Software for Product Design & Development
- Section 7: CMM Advance Co-ordinate Measuring Machine
- Section 8: Scanning & Reverse Engineering of Live Automobile Products in Team of 25 Members

Top 30 Candidates will be selected for Industrial Research Projects Duration of 6 Months

Conducted By: SAE INDIA
SAE Collegiate club of COE Anna

Part of Garage One 2013
Auto Factory-13 ASIA’S LARGEST TECHNICAL FESTIVAL
ON AUTOMOTIVE AND ENGINE DESIGN

Venue

Summary

Competition & Get Your R&D Project

Participant...
Part of Asia’s Biggest Fest for Automobile and Advance Technologies

National Technology Awareness Campaign

Part of Garage-One 2013

For the First Time in India

Direct from Research Industry

Product Design Using Reverse Engineering and Rapid Prototyping

Get Ready to Design and Develop Any Product which Surrounds You Using Reverse Engineering

Certified by: WIKIPEDIA, SGT-International, Steinbichler Germany, Rapidform Korea and Metawing Technologies
NEED FOR REVERSE ENGINEERING:

• The original manufacturer of a product no longer produces a product
• There is inadequate documentation of the original design
• The original manufacturer no longer exists, but a customer needs the product
• The original design documentation has been lost or never existed
• Some bad features of a product need to be designed out. For example, excessive wear might indicate where a product should be improved
• To strengthen the good features of a product based on long-term usage of the product
• To analyze the good and bad features of competitors’ product
• To explore new avenues to improve product performance and features
• To gain competitive benchmarking methods to understand competitor’s products and develop better products
• The original CAD model is not sufficient to support modifications or current manufacturing methods
• The original supplier is unable or unwilling to provide additional parts
• The original equipment manufacturers are either unwilling or unable to supply replacement parts, or demand inflated costs for sole-source parts
• To update obsolete materials or antiquated manufacturing processes with more power, less-expensive technologies
The major benefits that the students will have on attending Automobile Design Using Reverse Engineering advance workshop by Metawing are:

- Serve the Research Industry of India by making it to final 20 Merit Students

- 2-Day/ 16 Hrs Certificate Course for Automobile Research Industry

- Design your own Baja, Supra, commercial, sports Vehicle by just Reverse Engineering the present Vehicle

- An opportunity to learn Car Styling from Professionals of the industry like Nitin Jhamb, Ayush kumar Singh (Renowned people worked with more than 160 Projects of DRDO, Maruti Suzuki, Yamaha, Minda, Lumax, ISML SUZU, Re Designing of Sukohi 30 and Military Tanks and more)

- Learn live De-Assembling and 3D Scanning of commercial car and bike and Reverse Engineering of same Using 20 Million (INR) Research tools
Take away a kit which includes Unigraphics, Think 3, Rapidform (Worth 9 Lacs) Educational version, 3 Course Books, CD/DVD for Simulation Material and 6 month subscription, 1 Year membership of SGT-International, Certification

3D Scanners, Co ordinate Measuring Machine (CMM), Reverse Engineering tools, Softwares like Think 3, Rapidform Korea (Worth Of Research tools: 20 Million (INR)) will be used during workshop to provide Insight of Global Research Industry and providing hands on Experience.

Also given below are the links of videos explaining about what we are going to do during the workshop 3D Scanning, Modelling, Reverse Engineering.

3D Scanning

http://www.youtube.com/watch?feature=player_embedded&v=fyV7ZjBRaVw

Car Scanning Demonstration

http://www.youtube.com/watch?feature=player_embedded&v=Qn5e2Zz2EEM#

Reverse Engineering Software Video

http://www.youtube.com/watch?feature=player_embedded&v=RT-Oi-bssJ4#