



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA

Engineering concept behind the Electric & Solar vehicle in

Collaboration with AMT Moto Corp

WORKSHOP

17-08-2017 to 19-08-2017

Resource Person

Mr. Asish, AMT Moto Corp

No. of Students Participated: 76

1. Centurion University of Technology and Management, Parlakhemundi- 29 Students
2. Aditya Institute of Technology & Management, Tekkali- 55 students
3. Lendi Engineering college, Visakhapatnam- 2 students

REPORT

In this workshop students are trained to get expertise in design and fabrication of electric and solar vehicles as the principles of design and methodology of designing various subsystems are taught to them. CAE software is explained to validate the design. In this workshop students will design a prototype of electric and solar vehicles and will impart various manufacturing techniques and project planning. After completion of this workshop, the actively participated student will be capable of participating in most prestigious engineering events.

Objectives:

- 1) Introduction to Engineering events.
- 2) Basic mechanics
- 3) Introduction to Electric and solar vehicle
- 4) Introduction to Computer Aided Drafting
- 5) Chassis Design
- 6) Suspension Design
- 7) Steering system design
- 8) Engine and transmission

- 9) Braking system design
- 10) Wheel assembly design
- 11) Introduction to CAE
- 12) Optimisation of components using CAE
- 13) Fabrication methods
- 14) Jig preparation methods
- 15) Coping/ Notching techniques
- 16) Fabrication techniques of kart chassis
- 17) Testing
- 18) Validation

About Organisers:

AMT MOTO CORP is a student automobile organization started in 2013 by enthusiastic engineers who have vast experience in student racing events, with the main motto of imparting practical knowledge in students by providing them a best platform to apply the theory learnt by them in class rooms and also they train the students to compete in most prestigious engineering events like Indo-asia solar vehicle championship and E-Bike championships events.

Ashman motors are a team which has been instrumental in promoting motor sports events and ushering a new era of engineers where they will know what practically in the technical world stands for. The AMT motocorp will act as a launch pad to accord seamless endurance of engineers and their prolific inputs. They concentrate to craft a world, where knowledge and wisdom in engineering domain will lead to imagination and innovation
Inauguration ceremony:

The inauguration ceremony was held on August 17 2017 At 10:00 am in the CSERM Seminar hall.

The event started with the welcoming of the dignitaries and the resource person. The event proceeded with the lighting of the lamp. The presence of the dignitaries has made the event more gracious and filled the students with motivation through their kind words.

The dignitaries include:

- Dr. Anita Patro, REGISTRAR
- Mr.D.Raghuveer, HOD Mechanical Engineering
- Dr. P.S Rao, DEAN R&D
- Prof. Sadat Ali, DEAN SVET
- Mr. Ashish, CEO-Ashman Motor Corp
- Faculty of Mechanical Engineering

The event proceeded with the introduction of the AMT president and their highly talented team. The words of Mr. ASHISH SINGH were highly inspirational and encouraging. The students looked more enthusiastic after the speech from Mr.ASHISH SINGH.

After successfully completing the inauguration of the event, the WORKSHOP started with the schedule.

Program hosted by:



Lightening the lamp by registrar 17.8.2017



Resource person taking the session 17.8.17



On job training at Eicher laboratory



Discussion with students -17.8.2017

Students List:

1. Centurion University of Technology and Management, Parlakhemundi- 29 students
2. Aditya Institute of Technology & Management, Tekkali- 55 students
3. Lendi Engineering college, Visakhapatnam- 2 student

Brochure related to the event:

CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
 In Collaboration with
AMT MotoCorp
 Welcomes all the Engineering student of Branch ME, ECE, EEE
Workshop on
Engineering Concept behind the Electric & Solar Vehicle

Registration Fee: 1200/-

Components used on E-Bike, E-Car, Solar Car
 Demonstration of each and Every Parts.
 Explanation of all parts used on the vehicle in Detail.

Explanation of vehicle parts like Braking, Steering, Designing, Chassis Design, transmissions, Bodyworks etc.

Coordinator: Mr. D.Raghuvver (Ass. Prof.) Mr. Kishore (Project Associate) **Date** 17th- 19th Aug.
 +91-9556349138 +91-8333942682

Total No. of Participants: 29



Centurion University of Technology and Management

Workshop on

Engineering concept behind the Electric & Solar vehicle in Collaboration with
 AMT Moto Corp

Date: 17th August 2017 to 19th August 2017

Attendance Sheet

SL.No	Name of Participant	Signature
1	Vijay Kumar Karjee	Vijay Karjee
2	Saroj Kumar Nayak	Saroj Kumar
3	Padala Venkatesh	P. Venkatesh
4	Ayub Bhuyan	A. Bhuyan
5	Pintu Karjee	P. Karjee
6	T Santosh Revent	T. Revent
7	J Nilakantheswar Rao Dora	J. Nilakantheswar Rao Dora
8	Baishnabi Rani Gantayat	B.R. Gantayat
9	Aditya Beborata	A. beborata
10	Goru Shiva	Goru
11	Sambit Kumar Mishra	Sambit Kumar
12	G Siva Prasad	G.S. Prasad
13	Bishnupriya Mallik	B. Mallik
14	Vysyaraju Supriya	V. Supriya
15	Debasish Rath	Debasish
16	Kiran Kumari Das	K.K. Das
17	Kethati Sriram Reddy	K. Sriram
18	Lakkouju Kiran Kumar	L.K. Kumar
19	Anshideep Patra	Anshideep Patra
20	Ampolu Jai Chandu	A.J. Chandu
21	Chall Prasanth	C. Prasanth
22	Rokkam Dinesh Kumar	Rokkam Dinesh Kumar
23	B.Jyoti Subramanyam	B.J. Subramanyam
24	Soumya Darsan Pattanaik	S.D. Pattanaik
25	Vommu Sandeep	V. Sandeep

26	N Mani Kumar	N. manikumar
27	Vaddi Nethaji	V. Nethaji
28	Peddinti Manideep	P. manideep
29	Choudhari Manasa	C. manasa



Prof. KVD Prakash
Dean - IIE & HRD



Dr. Prasanta Ku. Mohanty
Dean Academic