

MIND'SPARK

News Letter

Department of Mechanical
Engineering

Academic Year 2018-19
Volume 3 Issue 2 (Dec 2018)



Methodist College of
Engineering & Technology

VISION

To be a reputed centre of excellence in the field of Mechanical Engineering by synergizing innovative technologies and research for the progress of society.

MISSION

M1: To impart quality education by means of state-of-the-art infrastructure.

M2: To involve in training and activities on leadership qualities and social responsibilities.

M3: To inculcate the habit of lifelong learning, practice professional ethics and serve the society.

M4: To establish industry- institute interaction for stakeholder development

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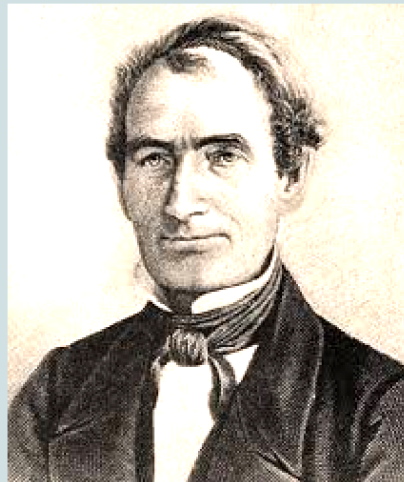
Rahul Shivansh B, 160717736032

Choragudi Arun, 160716736013

Shivani Gosha, 160715736068

InFocus: Scientist:

ELIPHALET REMINGTON (1793-1861):



Eliphalet Remington made his first flintlock rifle in 1816, and the business he started is still making guns today.

Founded as a rifle - barrel - manufacturing firm in 1816 by Eliphalet Remington II whose father operated a forge at Illion Gultch, New York the company that would become E. Remington & Sons in 1865 (and later

Remington U.M.C. [1910] and the Remington Arms Company [1934]) became one of leading commercial and military arms makers in the United States. In 1828 Remington built a factory beside the Erie Canal at the present site of Ilion, New York, where he and his son Philo pioneered many improvements in arms manufacture, including the first successful cast-steel drilled rifle barrel manufactured in the United States.

Though Remington died at the outbreak of the American Civil War (1861-65), the company he founded made thousands of arms for the Union, notably the —Zouavell percussion rifle and the New Model Army and Navy revolvers. Beginning in 1865-66, E. Remington & Sons was famous for its Joseph Rider-patented single- shot —rolling-block breech-loading action, which was incorporated in more than 1.5 million military and commercial rifles, carbines, shotguns, and pistols that the company produced over the next four decades. Among its noted firearms were the Model 870 pump-action shotgun, the Model 700 bolt-action rifle in existence for roughly two centuries. Remington is rightly known as America's oldest gunmaker.



EVENTS ORGANIZED

1. Seminar on Electrical Vehicle Mr. Ashhar Ahmed from Imperial Society Of Innovative Engineers, Noida On 12-09-18.
2. AutoCAD competition conducted by CADD centre on 26-09-18.
3. A two-day workshop on Mathematical Modeling in Manufacturing on 26-10-18 & 27-10-18 sponsored by TSCOST.

TEACHERS DAY CELEBRATIONS

Teacher's day was celebrated in a great manner by the students and faculty members of the Mechanical Engineering Department on 5th September.

ENGINEERS DAY CELEBRATIONS

Engineer's day was celebrated in a great manner by the students and faculty members of the Mechanical Engineering Department on 15th September.

PAPER PUBLICATIONS

S No	NAME OF THE FACULTY	NO. OF PAPERS PUBLISHED
1	Dr. A. Rajasekhar	3
2	Dr. P. Shailesh	5
3	Mr. Md. Fakhruddin H.N.	2
4	Mr. R. V. Prasad	2

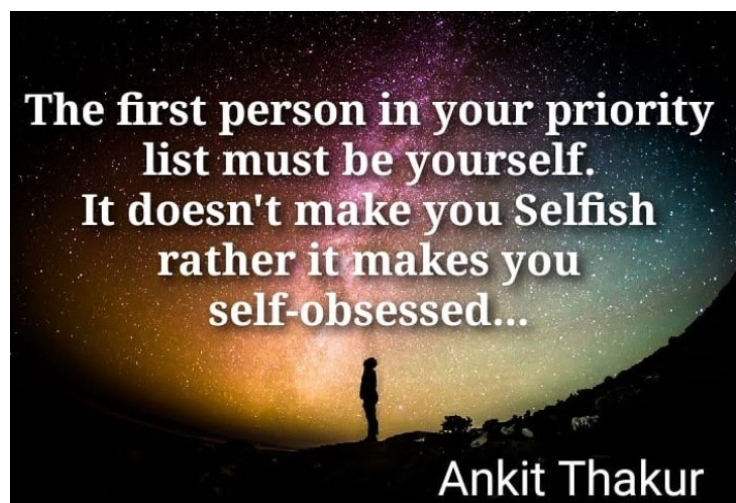
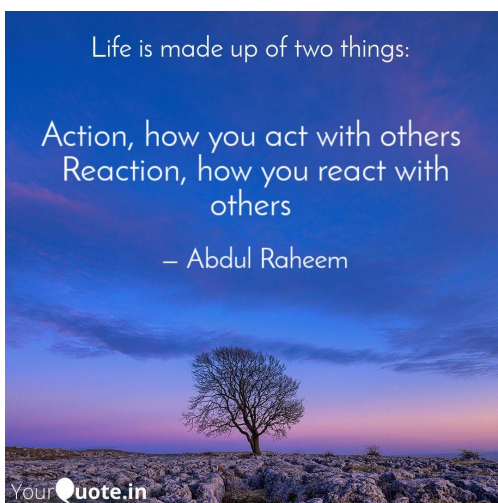
STUDENT PARTICIPATION

S. No	Roll No	Name of the Student	Name of the Event	Organising College	Month & Year
1	160717736020	M.shashank	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018
2	160717736001	Palati Sai naga kiran	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018
3	160717736011	V. S. Srithika	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018
4	160717736010	S. Ajay Kanth	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018
5	160717736032	Rahul Shivansh B	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018
6	160717736008	G Saikumar	Three days workshop on Design and Dynamics of Electrical Vehicle	Matrusri Engineering College in association with ISTE	27-9-2018 to 29-9-2018

EVENTS WORKSHOPS

S. No	Type & Activity	Date & Duration	Topic	Participants	Resource Person	Venue
01	Seminar	29 August 18	Opportunities through GATE	120	Times Institute	Methodist College of Engineering & Technology
02	Seminar	12 Sept 2018	Electric Vehicle Design	100	Mr. Chetan, CADD center	Methodist College of Engineering & Technology
03	Seminar	26 Sept 2018	AutoCad Competition	80	Mr. Ashhar Ahmed, Imperial Society of Innovative Engineers	Methodist College of Engineering & Technology
04	Workshop	26 & 27 October 2018	Mathematical Modeling in Manufacturing	100	1. Dr. Abhay Sharma, IIT-Hyd. 2. Dr. A Kumar, NIT-Warangal 3. Dr. A Krishnaiah, OU 4. Dr. N. S. K.. Reddy BITS-Hyd.	Methodist College of Engineering & Technology
05	Seminar	28 February 2019	Role of Science in Technology Development	300	1. Dr. B V Sarada, DRDL-Hyd 2. Dr. K Sadhana, PG College, Saifabad 3. Dr. M Lakshmi pathi Rao, Director-MCET.	Methodist College of Engineering & Technology
06	Workshop	02 March 2019	Automobile Engineering	80	Ms. Vidya Nambirajan, ceo-pabs.	Paramount Auto Bay Services

CREATIVE CORNER



CAD SPACE

CAD or Computer Aided Designing is developing at breakneck speed. Apart from AutoCAD, the most fundamental of the CAD software and the likes of Solidworks, CATIA, Creo Pro, Unigraphics, Solid Edge, Inventor, there are many new software that are coming up regularly. Here, let's look at one such software Fusion 360 developed by Autodesk & launched as far back as 2013.

Fusion rightfully named as it is literally the fusion of all the design, analysis, manufacturing and many more tools combined under one roof. We have generative design

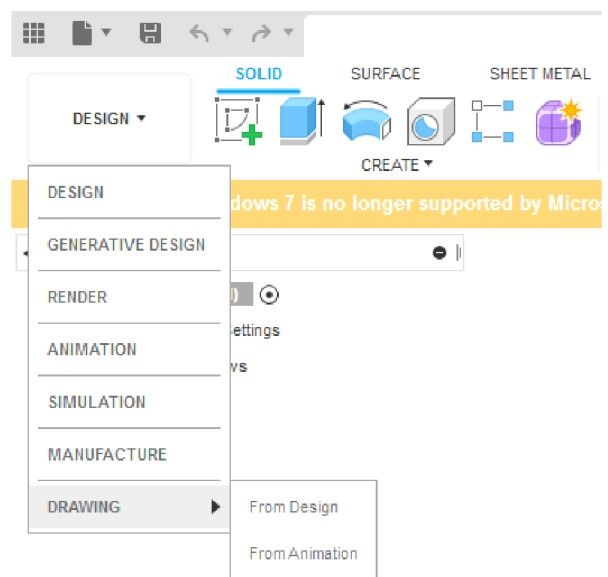


AUTODESK[®]
FUSION 360[™]

Fusion 360 is free to download and use for the students. It's cloud based design management makes it an essential tool to be used as a team. You can easily share your work with your mates and bypass the file transfer every time. Fusion saves each version, so if you want to go back to your initial work, you can.

Fusion allows you modelling in Freeform modeling & sculpting, Solid modeling, Parametric modeling and Mesh modeling, followed by simulation tests and fabrication using CAM option. Autodesk also provides you with their free tutorials for every tool provided by them.

Fusion 360 consists of a timeline which captures commands used during the design process. You will be able to go back and edit any past operations without needing to update the entire design. Entire model will automatically update historic timeline update point onwards. This is great when you want to iterate on a part only making small tweaks until your parts fit or perform just right. In addition, many content creators, specifically those providing 3d printing related content are users of the software. This has made it quite easy to learn how to start rapid prototyping designs that would otherwise require entire redesigns each and every time a part would have to be modified.



It's being used by many startups now and an amazing tool addition to your list. Overall it's a developing software with more and more improvement everyday and getting better for the user every time.

It is freely available for students to download & use. For any further help, contact the CAD Lab incharge.

: Happy Learning :