

# rajvda news

Department of Mechanical engineering

R.V.R. & J.C. College of Engineering, Guntur-522019

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## Engineer's Day

Every year, the country celebrates September 15 as National Engineer's Day to appreciate the contributions of Mokshagundam Visvesvaraya. The Bharat Ratna awardee, Visvesvaraya was born on September 15, 1861 in a village called Muddenahalli in Karnataka. He studied Bachelor of Arts (BA) from the University of Madras and pursued civil engineering at the College of Science in Pune.

A Bharat Ratna awardee, Visvesvaraya had studied Bachelor of Arts (BA) from the University of Madras and pursued civil engineering at College of Science in Pune.

He later patented and installed an irrigation system with water floodgates at the Khadakvasla reservoir near Pune to raise the food supply level and storage to the highest levels. This was also installed at Gwalior's Tigra Dam and Mysuru's Krishnaraja Sagara (KRS) dam, the latter of which created one of the largest reservoirs in Asia at the time.

While serving as the Diwan of Mysore, he was awarded 'Knight' in 1915 as a commander of the British Indian empire by King George V. He received the Bharat Ratna in 1955, became a member of the London Institution of Civil Engineers before he was awarded a fellowship by the Indian Institute of Science (IISC) Bangalore.

The eminent engineer, Mokshag undam Visvesvaraya passed away in 1962.

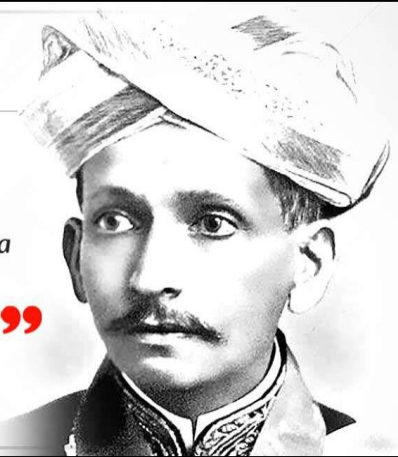
“

*No one person can shape the life of another. Your success and happiness depends upon your own self. Think for yourself and have a plan of life.*

”

SIR M VISVESVARAYA

The Indian EXPRESS



### Research Projects in Progress:

Ms.D.Swapna, Asst.Prof. received 3 lakh worth UGC sponsored project on 'Flow forming behavior of extra drawn Al6061 under warm deep drawing'. This project is in progress.

### Guest Lectures Delivered:

- A guest lecture was addressed to IV/IV B.Tech Students on 23<sup>rd</sup> June, 2018 on Fluid Dynamics by Prof. J.Prakash, Department of Mathematics, University of Botswana.
- A guest lecture was addressed to III/IV B.Tech Students on 9<sup>th</sup> July, 2018 on Mechanical Systems in Satellites by Sr.D.V.A.Raghava Murthy, former Project Director, Small Satellites-ISRO Bangalore.
- A guest lecture was addressed to IV/IV B.Tech Students on 6<sup>th</sup> Dec, 2018 on NDT Practices in Industry, by Sri.G.Vijaya Kumar CEO. Synergy Systems.

### Research Paper Publications:

- Sameer Kumar D, Naga Sai Suman K, 'Estimation of High Cycle Fatigue Life of AZ91E-Ni Coated Al<sub>2</sub>O<sub>3</sub> Particulate Nano Composites Using Reliability Based Approach', Journal of the Institution of Engineers (India): Series D, Volume 99, Issue 2 pp: 201-208, October, 2018. <https://doi.org/10.1007/s40033-018-0164-5>.
- Tara Chand V, Ravindra K, Bala Prasad K, Niranjana Kumar, 'Influence of Different Steam Cooling Techniques for High Pressure Turbine Blades on the Performance of Gas Turbine, Iranian Journal of Energy & Environment', Vol.9, Issue.3, pp.168-175, August, 2018. ISSN No.2079-2123, DOI: 10.5829/ijee.2018.09.03.03
- Tarachand V, Ravindra K, Bala Prasad K, 'Exergy assessment of air film blade cooled combined power cycle plant', International Journal of Ambient Energy, <http://doi.org/10.1080/1430750.2018.1501740>, July, 2018.
- Tara Chand V, Ravindra K, Bala Prasad K, 'Exergy assessment of air film blade cooled combined power cycle plant', International Journal of Ambient Energy, Vol. 39, July, 2018. ISSN No. 2162-8246, DOI: 10.1080/01430750.2018.1501740
- Md. Hasheer Sk and K. Srinivas, 'Theoretical analysis of a Low GWP Refrigerants as a Drop in Substitute of R134a in a Domestic

Refrigerator', Iranica Journal of Energy & Environment, Vol.9, Issue.2, pp.130-136, July, 2018. ISSN No.2079-2115, doi: 10.5829/ijee.2018.09.02.08

- Reddy Srinivasulu published a paper on 'Investigations of influence of drill geometry and thrust force during drilling of Aluminium 2014 alloy on burr formation through design of experiments and neural network, Technological Engineering, Volume XV, Number 1, 2018
- Snehlita K, Tara Sasanka C, and K.G.S.V.Manikanta, 'Design and Finite Element Analysis of Disc Brake with different materials for passenger car', International Journal for Research Trends and Innovation, 2018,3 (8), pp:114-119.
- K. Lakshmi Chaitanya, K. Srinivas, 'A Review on use of LM Based Aluminium Alloy in Automobile Components' American International Journal of Research in Science, Technology, Engineering & Mathematics ISSN: 2328-3491 (Print), ISSN: 2328-3580 (Online) September-November 2018 Issue 24 Volume 1
- K.B.Mutyalu, V.C.Das, K.Srinivasa Rao, 'Experimental investigation on performance and emission characteristics of DI-CI engine fueled with preheated shea Olein biodiesel', International Journal of Mechanical Engineering and Technology (IJMET), December, 2018. ISSN: 0976-6359
- P HariPrasada Rao, H.RaviSankar, V.Chittaranjan Das, 'Effect of thermal aging on mechanical properties and fatigue behaviour of PP/HDPE thermoplastic polymer nanoclay composites', International Journal of Mechanical and Production Engineering research and development (IJMPERD), 8-6-349-358, December, 2018. 2249-6890, 2249-8001
- Ravi Sekhar, Chittaranjan Das V, Govardhan D, 'Selection and Optimization of Process

**“ Failure is central to engineering. Every single calculation that an engineer makes is a failure calculation. Successful engineering is all about understanding how things break or fail ”**  
– Henry Petroski

Parameters of Friction Surfaced Deposits', Manufacturing Technology Today, 17-11, November, 2018

- P Hari Prasada Rao, H.Ravisankar, V.Chittaranjan Das, 'Thermal aging influence on mechanical properties and fatigue behavior of acrylonitrile butadiene styrene thermoplastic polymer nanoclay composites', International journal of Mechanical Engineering and Technology (IJMET), 9-1-679-686, October, 2018, 0976-6340,0676-6359
- K.B.Mutyalu, V.C.Das, K.Srinivasa Rao, 'Experimental Investigation on Characteristics of Di-Ci Engine Fueled with Shea Olein Biodiesel', International Journal of Mechanical Engineering and Technology (IJMET), 9, 7 1014-1021, July, 2018. 0976-6340.
- M Gopi Krishna, K. Praveen Kumar, M Naga Swapna, J Babu Rao, NRMR Bhargava, 'Metal-Metal Composites-An Innovative Way for Multiple Strengthening', Materials Today Proceedings, Volume 4, Issue 8, 2017, Pages 8085-8095, October,2018.

#### Paper Presentations in Conferences

- D.Kondala Rao presented two papers on 'Tool Condition Monitoring in Hard Turning by Using Vibration Analysis and Dominant Feature Identification for Tool Condition Monitoring by Using Acoustic Emission' in International Conference on Recent Advances in Materials and Manufacturing Technologies

(ICRAMMT-2018), during 19-20 November 2018, at MLRITM, Hyderabad

- Md.Hasheer.Sk presented a paper on 'Performance comparison of low gwp refrigerants as alternative R134a in a refrigerator with and without liquid suction heat exchanger' in International Conference on Recent Advances in Materials and Manufacturing Technologies(ICRAMMT-2018) 19-20 November 2018, at MLRITM, Hyderabad
- Reddy Srinivasulu presented a paper on 'Some investigations on drilling of Aluminium alloys from FEA based simulation using Deform-3D' at 7th International & 28th All India Manufacturing Technology, Design and Research (AIMTDR-2018) Conference 2018 during 13-15 December 2018, organized by College of Engineering Guindy, Anna University, Chennai.

#### Conferences/ Workshops Attended:

- Mr.K.Hari Prasad and T.N.S.Rama Krishna attended APSSDC Program on 'Digital driven design and manufacturing on the 3dx platform', at Lakireddy Bali Reddy College of Engineering during 04-09 July 2018.
- Dr.V.Ramakoteswara Rao attended a 5-day National Workshop on 'Basics in Robotics and Applications' organized by Department of Mechanical Engineering, held during 17-21 December 2018 at VFSTR, Vadlamudi.
- K. Lakshmi chaitanya attended a workshop on, 'Leader Ship Opportunities for

*"Strive for perfection in everything.  
Take the best that exists and make it better.  
If it doesn't exist, create it. Accept nothing  
nearly right or good enough."*

*Sir Henry Royce,  
co-founder of Rolls Royce*



Professional Women' on 27.10.2018, & 28.10.2018 organized by IEEE with IEEE WIEAG Hyderabad section, at Efftronics system, Vijayawada.

- Dr.V.C.Das, Y.N.V.Sairam, K.HariPrasad, V.Tarachand, Sneha H Dhoria, M. Vijaya, K.Lakshmi Chaitanya attended one week AICTE-ISTE sponsored Induction / Refresher program on 'Research Methodology, Design and Analysis of the Experiments' conducted by Department of Mechanical Engineering, RVRJCCE, during 12-17 Nov 2018.
- Dr.C.Tarasasanka attended a workshop on 'Epics In India Annual Symposium-2018', at Hyderabad, during 12-14 July 2018, organized by IUCEE & Dr. William Oakes, Purdue University, USA
- Dr.C.Tarasasanka attended a IUCEE-EPICS Design Thinking Course from January 2018-July2018.
- Dr.V.Ramkoteswara Rao, Sneha H Dhoria, K.Snehitha, D.Sameer Kumar, J.P.Karthik completed a two week FDP on 'Mentoring Educators in Educational Technology(FDP 301X) conducted by IIT Bombay during May 17-July 5, 2018.
- D.Sameer Kumar and J.P.Karthik attended a one week QIP on 'Mechanical Properties and Deformation Behavior of Structural Materials' organized by Department of Metallurgical Engineering , IIT (BHU) , Varanasi during 27Aug-1Sep, 2018.
- D.Sameer attended a three day FDP on 'Product Development on 3D Experience'

organized by APSSDC in association with Dassault Systems and VVIT during 20-22 November 2018.

- D.Swapna attended a DST-NIMAT Project Facilitation Workshop (South Zone I), at Sri Venkateswara College of Engineering, Tirupati on 19th Dec,2018.
- Mr.J.RangRaya and Dr.C.TaraSasanka attended a workshop on Indo European skill center in mechatronics and industrial robotics, APSSDC, on 2 Nov, 2018.

➤ Dr.K.Praveen Kumar and Dr.V.C.Das attended a one week workshop on 'Outcome Based Education and Accreditation', at National Institute Of Technical Teachers Training And Research, Kolkata.

➤ Dr.K.Praveen Kumar attended the workshop on 'Product Development on 3D Experience', at Swarnandhra College of Engineering & Technology, Narsapur, West Godavari District, A.P.

### Mathematics of Life

$$\begin{array}{r} \text{Life} + \cancel{\text{Love}} = \text{Happy} \\ \text{Life} - \cancel{\text{Love}} = \text{Sad} \\ \hline 2 \text{ Life} = \text{Happy} + \text{Sad} \\ \hline \therefore \text{Life} = \frac{\text{Happy} + \text{Sad}}{2} \\ \hline \therefore \text{Life} = \frac{1}{2} \text{ Happy} + \frac{1}{2} \text{ Sad} \end{array}$$

***That's Real Life. Enjoy It.***

**NPTEL Courses Completed:**

Dr.Reddy Srinivasulu completed his NPTEL online certification 12 week (July-Oct 2018) course on "Intellectual Property" conducted by IIT Madras Passed with E-lite grade.

**PhD awarded:**

- Dr.Reddy Srinivasulu awarded Ph.D for his thesis '**Investigations on Burr formation in Drilling of Aluminium alloys**' in the month Dec, 2018.

