



# MIND'SPARK

News Letter

Department of Mechanical Engineering

Academic Year 2019-20 | Volume 4 Issue2 | Dec 2019

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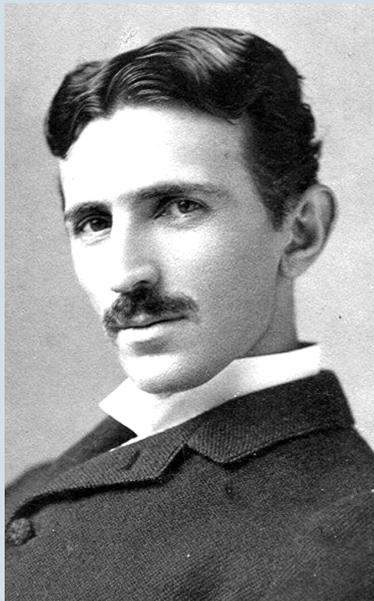
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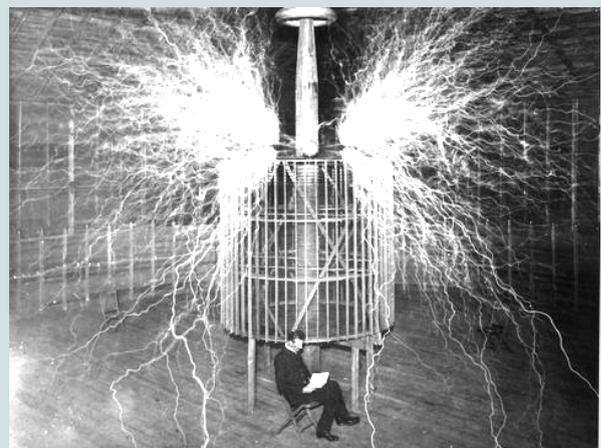
## InFocus: Scientist: Nikola Tesla

He was born on 10 July 1856 & died 7 January 1943. He was a Serbian-American inventor, electrical engineer, mechanical engineer, and futurist who is best known for his contributions to the design of the modern alternating current (AC) electricity supply system.

Born and raised in the Austrian Empire, Tesla studied engineering and physics in the 1870s without receiving a degree, and gained practical experience in the early 1880s working in telephony and at Continental Edison in the new electric power industry. He emigrated in 1884 to the United States, where he became a naturalized citizen. He worked for a short time at the Edison Machine Works in New York City before he struck out on his own. With the help of partners to finance and market his ideas, Tesla set up laboratories and companies in New York to develop a range of electrical and mechanical devices. His alternating current (AC)

induction motor and related polyphase AC patents, licensed by Westinghouse Electric in 1888, earned him a considerable amount of money and became the cornerstone of the polyphase system which that company eventually marketed.

Attempting to develop inventions he could patent and market, Tesla conducted a range of experiments with mechanical oscillators/generators, electrical discharge tubes, and early X-ray imaging. He also built a wireless-controlled boat, one of the first-ever exhibited. In 1893, he made pronouncements on the possibility of wireless communication with his devices. Tesla tried to put these ideas to practical use in his unfinished Wardencllyffe Tower project, an intercontinental wireless communication and power transmitter.



Tesla's work fell into relative obscurity following his death, until 1960, when the General Conference on Weights and Measures named the SI unit of magnetic flux density the tesla in his honor. There has been a resurgence in popular interest in Tesla since the 1990s.

## PLACEMENTS

S. No	Roll No	Name of the student	Designation	Company	CTC
1	160715736062	M. Saikrishna Laxman	System Engineer	Infosys (Through TASK)	3.64 LPA
2	160715736067	Shivam Kumar Dubey	Engineer Trainee Level-3	Cyient	3.2 LPA
3	160715736072	Sohail Khan	Business Trainee	Raam Group	2.4 LPA
4	160715736314	Narender Kuriyal	Intern-Designer	Eigertech Knowledge services Pvt. Ltd	2.26 LPA
5	160715736090	Vinay Hanumanthu	Intern-Designer	Eigertech Knowledge services Pvt. Ltd	2.26 LPA
6	160715736096	Yogesh Kumar	Intern-Designer	Eigertech Knowledge services Pvt. Ltd	2.26 LPA
7	160715736014	Ratan Balaji	Trainee Engineer	Neo Petcon India Pvt. Ltd.	2.28 LPA
8	160715736303	Cheekoti Rishik	Trainee Engineer	Neo Petcon India Pvt. Ltd.	2.28 LPA
9	160715736304	Maga Sridhar	Trainee Engineer	Neo Petcon India Pvt. Ltd.	2.10 LPA
10	160715736043	T. Nithin	Trainee Engineer	Neo Petcon India Pvt. Ltd.	2.28 LPA
11	160715736309	T Manidev	Junior GIS Engineer	Oloop Technologies Pvt. Ltd	1.45 LPA
12	160715736310	P Viswateja Chary	Intern-Designer	Eigertech Knowledge services Pvt. Ltd	1.44 LPA
13	160715736307	G Mahesh	Intern-Designer	Eigertech Knowledge services Pvt. Ltd	1.44 LPA
14	160715736074	S Sravya Sree	HR Assistant	Joules to Watts Business solutions Pvt Ltd.	2.4 LPA

## EVENTS ORGANISED

1. Industry Institute Interaction meet on 5<sup>th</sup> Feb 2019
2. Inauguration of Electric Vehicle Design on 5<sup>th</sup> Feb 2019
3. 1 Day Seminar on Role of Science in Technology Development on 28<sup>th</sup> Feb 2019
4. 1-Day W/S on Automobile Engineering on 2<sup>nd</sup> March 2019
5. Industrial visit to NFC on 11<sup>th</sup> Oct 2019
6. 1 Day W/S on Recent Advances in Welding 2019 on 22<sup>nd</sup> Aug 2019

## CONFERENCE PAPERS PUBLISHED

S No	Name of the Faculty	Name of the Conference
1	Dr. P. Prabhuraj	P.Prabhuraj, S.Rajakumar, V.Balasubramanian, Evaluating Stress Corrosion Cracking Behaviour of Friction Stir Welded High Strength Aluminium Alloy Joints, International welding Meet 2019, IWS, Hyderabad.

**ONLINE COURSES COMPLETED**

S. No	Name of the Faculty	Subject	Agency
1	Dr. P. Prabhuraj	Manufacturing Process	SWAYAM
2	Mr. Medishety Guru Vishnu	Heat Transfer	SWAYAM
3	Mr. Y Madhu M. Reddy	Engineering Mechanics Statics & Dynamics	NPTEL
4	Mr. Y Madhu M. Reddy	Annual Refresher Programming in Engineering Mechanics	SWAYAM
5	Mr. Md. Asadullah	Aircraft Propulsion	SWAYAM
6	Mr. Medishety Guru Vishnu	Heat Exchangers: Fundamentals and design analysis	SWAYAM
7	Mr. Matam Prasad	Product Design Using Value Engineering	NPTEL
8	Dr. Fakhruddin H.N	Refrigeration and Air-conditioning	NPTEL
9	Mr. Srikanth Rangdal	On shape fundamentals : Data Mgmt.	SELF PACED

**RESEARCH PAPERS PUBLISHED**

S No	Name of the Faculty	Name of the Journal
1	Mr. Mohammed Asadullah	Thermal analysis of tbc coated superalloy for industrial gas turbine applications.grenze international journal of engineering and technology.
2	Mr. Y Madhu Maheswara Reddy	'Modeling and Model Analysis of an Industrial Robot Arm for Pick and Drop Circular Motion using Different Materials" 'International Journal of Engineering and Advanced Technology (IJEAT)', ISSN: 2249-8958 (Online), Volume-8 Issue-6, August 2019, Page No.:4514-4520.
3	Dr. P. Ravi Chander	Published a paper titled "Modeling and Model Analysis of an Industrial Robot Arm for Pick and Drop Circular Motion Using Different Materials"International Journal of Engineering and Advanced Technology (IJEAT),ISSN: 2249 – 8958, Volume-8 Issue-6, August 2019.
4	Dr. P. Prabhuraj	P.Prabhuraj, ", Electrochemical response of stir zone in friction stir welded AA7075-T651 joint in sodium chloride solution September 2019.DOI: 10.1016/j.matpr.2019.08.193. ScienceDirect Materials Today: (Elsevier Scopus )
5	Dr. A. Rajasekhar	K. N. Kiran Kumar, A. Raja sekhar , P. Ravi Chander, Y MM. Reddy, Vivekananda K "Design Evaluation & Improvement Analysis of Vehicle Structural Crashworthiness using CAE in IIHS Frontal Crash Test", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1, October 2019, pp.1575-82

**STUDENTS ACHIEVEMENTS**

1. Mech 3<sup>rd</sup> Year Student Ajay Kanth got Bronze Medal in Rowing Competition held at Hussain Sagar, Hyderabad from 3<sup>rd</sup> December - 7<sup>th</sup> December 2019
2. Mech 4<sup>th</sup> Year Student Pusa Bharath Kumar got Bronze Medal in International Taekwondo Championship held at Talkatora Indore Stadium, New Delhi 2019 during 23-25 Aug 2019.
3. Mech 3<sup>rd</sup> Year Student Luqman Zuhair has played for Hyderabad Under 19 Cricket Team

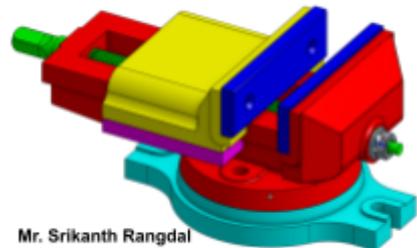
### STUDENT PARTICIPATION

S No	Roll No	Name of the Student	Name of the Event	Organising College	Month & Year
1	160718736092	Syed Khundmeer Siddique	Cricket, Nasa Space app challenge(hackathon) , High catches , badminton etc	MCET	Sep 2019
2	160717736020	M Shashank	NASA Space App Challenge	MCET	Sep 2019
3	160717736001	Palati Sai Naga Kiran	NASA Space App Challenge	MCET	Sep 2019
4	160717736010	S Ajay Kanth	4th Indoor National Rowing Championship	Bihar	Sep 2019
5	160717736010	S Ajay Kanth	NASA Space App Challenge.	MCET	Sep 2019
6	160717736032	Rahul Shivansh B	All India Tennis championship tournament	Nvk Tennis academy	Sep 2019
7	160717736332	Sandeep Nune	NASA Space App Challenge	MCET	Sep 2019
8	160716736013	Choragudi arun	NASA Space App Challenge	MCET	Sep 2019
9	160717736328	Bhagilikar Rakesh Kumar	Field visit to NFC	ECIL, NFC.	Sep 2019
10	160717736032	Rahul Shivansh B	Indian welding society workshop on advancement in welding	MCET	Oct 2019

### CREATIVE CORNER



M. Shashank



Mr. Srikanth Rangdal

### Department of Mechanical Engineering

#### 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