

Edition III, Volume III 2019-20

Mechanical Engineering E-Magazine (LBRCE)



(TIER-I)



# MECH PULSE

(JAN-MAR 2020)

DEPARTMENT OF MECHANICAL ENGINEERING  
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING  
(Autonomous)

Accredited by NAAC & NBA ( CSE, IT, ECE, EEE & ME) under Tier - I  
Approved by AICTE and Permanently Affiliated to JNTUK, Kakinada

Mechanical Engineering E-Magazine (LBRCE)

## MESSAGE FROM HEAD OF THE DEPARTMENT

I am very happy to inform you that the department of mechanical engineering is bringing **MECH PULSE-an e-magazine** its edition IV and volume III. The department of mechanical engineering is Accredited by **National Board of Accreditation (NBA) under Tier-I** and is started in the year 1998 with an intake of 60 students. At present the department is offering B.Tech Mechanical Engineering with an intake of 120 students and M.Tech – Thermal Engineering with an intake of 18 students. The department has thirteen state of art laboratories worth of 2.8 crores, with advanced computing facilities, software and research equipment. Advanced **Research Laboratories** in the area of **Cognitive Science, Material Testing, Tribology and Thermal Engineering** are available. Sophisticated **ANSYS Skill Development Centre** with 110 users of ANSYS 18.1 and **Dassult 3D Experience centre** (in association with APSSDC) is available. The department has 34 faculty members with 9 Doctoral degrees. Thirteen faculty are actively pursuing for their Ph.D in various universities and nine research scholars are working for their doctoral under the department faculty. The department faculty constantly upgrade their knowledge in the area of their domain by attending various Faculty Development Programs, workshops, seminars etc. The faculty are actively engaged in their research work and are active in publishing papers in journals and conferences.

## VISION OF THE DEPARTMENT

- To impart knowledge in Mechanical Engineering with global perspectives for the graduates to serve the society and industry.

## MISSION OF THE DEPARTMENT

- To enable the graduates technically sound with the state- of- the –art curriculum and innovative teaching methods
- To provide training programs that bridge the gap between academia and industry
- To create a conducive environment and facilities to improve overall personality development of the graduates
- To make the graduates aware of role and responsibilities of an engineer in society.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

**PEO1:** To build a professional career and pursue higher studies with sound knowledge in Mathematics, Science and Mechanical Engineering.

**PEO2:** To inculcate strong ethical values and leadership qualities for graduates to become successful in multidisciplinary activities.

**PEO3:** To develop inquisitiveness towards good communication and lifelong learning.

## PROGRAM OUTCOMES (POs)

**Engineering Graduates will be able to:**

**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

**PSO1:** To apply the principles of thermal sciences to design and develop various thermal systems.

**PSO2:** To apply the principles of manufacturing technology, scientific management towards improvement of quality and optimization of engineering systems in the design, analysis and manufacturability of products.

**PSO3:** To apply the basic principles of mechanical engineering design for evaluation of performance of various systems relating to transmission of motion and power, conservation of energy and other process equipment.

## ONGOING RESEARCH PROJECTS

S.No.	Name of the Faculty	Title of the Project	Funding Agency	Amount Sanctioned	Sanctioned Year
1.	Dr.K.Appa Rao	MODROBS for Thermal Engineering Laboratory	AICTE	12,50,000	2016
2.	Dr.K.Appa Rao	Experimental Investigation on Homogeneous Charge Compression Ignition Engine	UGC	1,55,000	2018
3.	Dr.N.Sunil Naik	Evaluation of engine parameters affecting the performance of enzymatic transesterification process using test fuel blends	DST/SERB/EE Q	22,81,000	2019

## RESEARCH PROJECT SANCTIONED

S.No.	Name of the Faculty	Title of the Project	Funding Agency	Amount Sanctioned	Sanctioned Year
1.	Dr.P.Vijay Kumar	Prerana scheme	AICTE	4,80,000	2019



## RESEARCH PROPOSALS SUBMITTED

S.No.	Name of the Faculty	Title of the Project	Funding Agency	Amount	Submitted Year
1.	Dr.V.Dhana Raju	Waste-to-energy approach for utilizing non-edible biodiesel as a fuel & investigation of its influence on diverse characteristics of agricultural diesel engine	SERB	26,74,000	March 2020

## CONFERENCES ATTENDED BY FACULTY

1. **Dr.P.Ravindra Kumar**, “Poster Presentation on All Terrain Vehicle”, International Conference on Transformations in Engineering Education (ICTIEE 2020), Anurag Group of Institutions, Hyderabad From 05.01.2020 To 08.01.2020.
2. **Dr.P.Vijay Kumar**, “An Experimental Investigation of Tube-in-Tube Heat Exchanger to Enhance Heat Transfer by Using Titanium Oxide Water Nano Fluid” International Conference on Innovations in Thermo-Fluid Engineering & Sciences-2020 in NIT Rourkela, Odisha from 10.02.2020 to 12.02.2020.
3. **Dr.Y.Appala Naidu**, “A Probabilistic study on Static, Modal analysis & Fatigue life of the Connecting Rod” International Conference on Recent Advances in Mechanical Engineering in AU College of Engineering (A), Visakhapatnam from 26.02.2020 to 28.02.2020.
4. **Dr.N.Sunil Naik**, “Effects of Butanol-biodiesel blends on Performance and Combustion Characteristics in a CI Diesel Engine” International Conference on Recent Advances in Mechanical Engineering in AU College of Engineering (A), Visakhapatnam from 26.02.2020 to 28.02.2020.
5. **Ch.Siva Sankara Babu**, “Experimental & Finite Element Analysis on Dynamic Response of a Cantilever Beam Subjected to Transit Mass” International Conference on Recent Advances in Mechanical Engineering in AU College of Engineering (A), Visakhapatnam from 26.02.2020 to 28.02.2020.
6. **Ch.Siva Sankara Babu**, “Damage Identification of Beam Like Structures Using Mode Shapes & Its Curvature” International Conference on Recent Advances in Mechanical Engineering in AU College of Engineering (A), Visakhapatnam from 26.02.2020 to 28.02.2020.
7. **K.V.Viswanadh**, “Modal Analysis of cellular core honeycomb sandwich panel” International Conference on Recent Advances in Mechanical Engineering in AU College of Engineering (A), Visakhapatnam from 26.02.2020 to 28.02.2020.

## JOURNALS PUBLISHED BY THE FACULTY

**Dr. K.Murahari,**

Assoc.Professor

[Kmhari.nitw@gmail.com](mailto:Kmhari.nitw@gmail.com)



**Title of the Paper:** Parametric Optimization of Electrical Discharge Grinding on Ti-6Al-4V Alloy Using Response Surface Methodology

**Name of the Journal:** Advances in Applied Mechanical Engineering, Springer

**Publication on:** Feb 2020

**ISSN No:** 978-981-15-1200-1

**Doi:** [https://doi.org/10.1007/978-981-15-1201-8\\_89](https://doi.org/10.1007/978-981-15-1201-8_89)

**Abstract:** In this paper, an experimental study of electrical -discharge grinding (EDG) process of Ti-6Al-4V alloy on material removal rate (MRR) and surface roughness (SR) through response surface methodology (RSM). Wheel speed (WS), discharge current ( $I_p$ ), pulse on time ( $T_{on}$ ), and pulse off time ( $T_{off}$ ) are considered the important parameter. RSM-central composite design (CCD) of four parameters with three levels has been employed. ANOVA results were performed to identify the significant parameters and the establishment of the mathematical model of MRR and SR. Furthermore, mathematical models and experimental values were correlated; the results were verified and found to be within the range of 7.57% and 4.68% of MRR and SR, respectively.

## JOURNALS PUBLISHED BY THE FACULTY

**Dr. K.Murahari,**

Assoc.Professor

[Kmhari.nitw@gmail.com](mailto:Kmhari.nitw@gmail.com)



**Title of the Paper:** Multi- Parametric Optimization of Electrical Discharge Machining of Inconel-690 Using RSM-GRA Technique

**Name of the Journal:** Advances in Applied Mechanical Engineering, Springer

**Co-Authors:** M.Bhavani, Dr. S. Pichi Reddy

**Publication on:** Feb 2020

**ISSN No:** 978-981-15-1200-1

**Doi:** [https://doi.org/10.1007/978-981-15-201-8\\_118](https://doi.org/10.1007/978-981-15-201-8_118)

**Abstract:** In many industries, alloys of nickel have extensive range of applications for their noteworthy properties like corrosion resistance, high temperature tolerance and resistance to creep rupture. Nickel-chromium (Ni 690) alloys being precipitation hardenable are broadly employed in aircraft structures, gas turbines, rocket engine thrust chambers, pressure vessels and nuclear reactors. Machining of Inconel 690 is very hard by traditional routes because of their strong strain hardening nature, poor thermal conductivity and high strengths at very high temperatures. EDM has a thermal process which can be used irrespective of workpiece strength and hardness, to machine Inconel 690 alloy by electrical erosion. In this paper, the investigation of chosen input parameters current ( $I_p$ ), pulse on time ( $T_{on}$ ), gap voltage (V) and pulse off time ( $T_{off}$ ) of EDM on Ni-690 alloy on resulting process parameters like surface roughness (SR) and material removal rate (MRR) is considered. Primarily, the experiments were planned and designed with RSM-CCD approach. Grey relational analysis (GRA) was adapted to multi optimize the performance parameters on MRR and SR. In further stages, analysis of variance (ANOVA) approach was selected to reveal the impact of the variables on the performance characteristics of SR and MRR. GRA results show that the EDM performance in the Ni-690 machining process can be improved at confirmation test conditions.

## JOURNALS PUBLISHED BY THE FACULTY

**Dr. P.Ravindra Kumar,**

Professor

[pasupuletirk@gmail.com](mailto:pasupuletirk@gmail.com)



**Title of the Paper:** Experimental Investigation of Ultrasonic Flaw Defects in Weld Clad Materials Using NDT Technique

**Name of the Journal:** Lecture Notes in Mechanical Engineering, Springer

**Publication on:** Feb 2020

**ISSN No:** 978-981-15-1200-1

**Doi:** [10.1007/978-981-15-1201-8\\_111](https://doi.org/10.1007/978-981-15-1201-8_111)

**Abstract:** Automated ultrasonic testing method will be used in the many industries to locate discontinuities and to detect internal defects under test inside the workpiece material. The lowest defect size in weld material may start from 0.5 mm onwards. Ultrasonic testing is a fast and automated method, because the signals are available in electronic form to be tested in plates and pipes. This is mainly used for whether the material will be accepted or rejected easily based on internal cracks. “Modsonic Einstein II TFT (MODSONIC)” software package has been extensively using in many industries to find flaws and cracks. The objective of the work is to find the flaws in various materials like mild steel (M.S) plate clad with mild steel (M.S) electrode, mild steel plate clad with brass electrode, mild steel plate clad with stainless steel electrode, mild steel pipe clad with mild steel electrode. To detect the flaws at various angles, the probes are placed at 45°, 60° and 70°. When the size of the weld plate is less than 25 mm, then it will be preferable to use and find flaws in materials with 70° probe angle. With MODSONIC software package, it is found that mild steel pipe welded with mild steel electrode highlighted more internal flaws at 70° probe angle from experimental analysis.



## JOURNALS PUBLISHED BY THE FACULTY

**Dr. V.Dhana Raju,**

Assoc.Professor

[Dhanaraju1984@gmail.com](mailto:Dhanaraju1984@gmail.com)



**Title of the Paper:** Effect of EGR on diverse characteristics of diesel engine operated with corn seed biodiesel blend

**Name of the Journal:** International Journal of Ambient Energy

**Publication on:** Feb 2020

**ISSN No:** 0143-0750

**Doi:** <https://doi.org/10.1080/01430750.2020.1745275>

**Abstract:** Transportation sector and industrialisation both are having a major impact on the economic development and ecological nuisance of any country across the globe.  $\text{NO}_x$  is a highly toxic gas, released from the combustion of diesel fuel. In this current experimental work, controls of  $\text{NO}_x$  emissions are examined by using Exhaust Gas Recirculation (EGR). The investigational unit is operated with corn seed oil biodiesel blend. Performance, combustion and emission features are investigated at different EGR ratios (5%, 10% and 15%, respectively), and results are compared with diesel fuel. From the analysis of the experimental results, it is concluded that  $\text{NO}_x$  emissions are decreased by increasing the EGR ratio. However, a small penalty of engine performance and increased soot formation are observed at a higher EGR ratio. From the experimental test results, it is confirmed that EGR technique implementation generated excellent results for the control of harmful  $\text{NO}_x$  emissions.

## JOURNALS PUBLISHED BY THE FACULTY

**Mr. A. Naresh Kumar,**

Sr. Assistant. Professor

[nareshkumarakula@hotmail.com](mailto:nareshkumarakula@hotmail.com)



**Title of the Paper:** Optimization of Diesel Engine performance by Taguchi Grey Relational analysis using fuel blends

**Name of the Journal:** International Journal of Recent Technology and Engineering

**Publication on:** Mar 2020

**ISSN No:** 2277-3878

**Doi:** [10.35940/ijrte.F9249.038620](https://doi.org/10.35940/ijrte.F9249.038620)

**Abstract:** In this present investigation an attempt was made to explore the effect of fuel injection timing (FIT), fuel injection pressure (FIP), Load and exhaust gas recirculation (EGR) for various fuel blends (Palm Oil, cotton Seed oil, n-Butanol) as input parameters on SFC, BTE, CO, HC, NO<sub>x</sub> and with a minimum number of experiments. In order to reduce the experimental efforts, Taguchi's L27 orthogonal array was employed for design of experiments. An algorithm involving the combination of grey relational analysis with Taguchi technique was proposed for the optimization of engine emission and performance. The optimum combination for more brake thermal efficiency is obtained for n-butanol-IT of 270 bTDC-IP of 200 bar- EGR of 10% load percentage of 100. At the same time optimum combination for minimum nitrogen oxide emission is obtained for CSO-IT of 190 bTDC-IP of 220 bar-EGR of 20 percentage- load percentage of 50. The optimum combination considering all the output parameters was obtained using grey relational analysis and output values for optimum combination was also calculated experimentally. Based on ANOVA, engine load be the most influencing factor (Contribution of load was 57.8 %) for the selected objective of improvement in BSFC and BTE with lesser penalty on emissions (HC, CO, NO<sub>x</sub>) based on equal weight ages.

## JOURNALS PUBLISHED BY THE FACULTY

**Mr. S. Srinivasa Reddy,**

Assoc.Professor

[seelamlbrce@gmail.com](mailto:seelamlbrce@gmail.com)



**Title of the Paper:** Fabrication of Plastic Shredder

**Name of the Journal:** Compliance Engineering Journal

**Publication on:** Mar 2020

**ISSN No:** 0898-3577

**Doi:** [16.10089.CEJ.2020.V1114.285311.3009](https://doi.org/10.10089.CEJ.2020.V1114.285311.3009)

**Abstract:** A plastic shredder is a machine that is adopted for splinting the plastic into tiny pieces which makes waste management smoother. This project targets the recycling of the plastic waste in domestic areas, industries, etc. In these areas, the presence of plastic that can be recycled is in large quantities, but the available machinery to recycle this waste is very costly, which in turn makes packaging and transporting much costly. So the main motive backing this project is to process the plastic waste as cheaply as possible by shredding which minimizes the cost of processing and transportation. This machine is contained with a single-phase motor, gearbox, bearings, structural frame, blades and a couple of shafts.

## GUEST LECTURES

### MODEL BASED SYSTEMS ENGINEERING

- The Dept. of Mechanical Engineering, organized a Guest Lecture on “**MODEL BASED SYSTEMS ENGINEERING**” on 21/01/2020 by Mr.D.Ravi Teja, Mr.K.Dinesh, Mr.M.Chandra sekhar Reddy, Dassault systems. Dr.K.Dilip Kumar coordinated the event.



Guest Lecture delivered by Mr.D.Ravi Teja



VI and VIII Semester Student Participants



## INDUSTRIAL TRAINING IN POWER SECTOR

- The Dept. of Mechanical Engineering, organized a Guest Lecture on “**INDUSTRIAL TRAINING IN POWER SECTOR**” on 28/01/2020 by Mr.G.Vijay Kumar, CEO, Synergem for third and final year Mechanical Engineering Students. Dr.K.Dilip Kumar coordinated the event.



Guest Lecture on “Industrial Training in Power Sector” by Mr.G.Vijay Kumar



VI and VIII Semester Student Participants



## STUDENT CERTIFICATION PROGRAM

- The Dept. of Mechanical Engineering, organized a student certification program on “**Finite Element Analysis using ANSYS**” from 03/02/2020 to 07/02/2020 by Mr.Vinay Kumar, Veda Engineering Solutions-Hyderabad for final year Mechanical & Aerospace Engineering Students. Mr.A.Nageswararao coordinated the event.



Addressed by Principal Dr.K.Appa Rao



Practice session by Mr.Vinay Kumar

## INDUSTRIAL VISIT

- B.Tech IV Semester B and C Section Students of Mechanical Engineering had visited “Pratap Industries Pvt. Ltd.”, Enikepadu, Vijayawada during 18-02-2020 to 19-02-2020.



IV Semester B Section girl students inside the industry



IV Semester B and C Section students inside the industry

## SUMMARY OF COLLOQUIMS ORGANIZED

S. No	Name of the Faculty	Topic	Date
1.	A.Nageswara Rao	Robotic Applications & Service	03-01-2020
2.	K.Lakshmi Prasad	Cooling of Electronic Components	17-01-2020
3.	Mr.R.Praveen Kumar	Applications of manufacturing processes	06-02-2020
4.	Mrs.B.Udaya Lakshmi	Introduction to Optimization Techniques	13-02-2020
5.	Mr.D.Mallikharjunarao	Introduction to cryogenics	06-03-2020
6.	Mrs.B.Kamala Priya	Prediction of thermal conductivity on FRP composites	13-03-2020

**FD  
P's**

## /STTP's/STC's/WORKSHOP's ATTENDED BY FACULTY

1. Mr.J.Subba Reddy, Dept. of Mechanical Engineering has participated in three days workshop on "3D Experience- System Engineering, Delmia & Simulia" organized by R & D Centre, Dassault Systemes 3DPLM Office, Pune during 23-1-2020 to 25-1-2020.
2. Mr.A.Nageswara Rao, Dept. of Mechanical Engineering has participated in three days workshop on "3D Experience- System Engineering, Delmia & Simulia" organized by R & D Centre, Dassault Systemes 3DPLM Office, Pune during 23-1-2020 to 25-1-2020.
3. Dr.P.Ravindra Kumar, Dept. of Mechanical Engineering has participated in "One day Workshop on Seminar on ABET Accreditation" organized by Anurag Group of Institutions, Hyderabad on 05-01-2020.
4. Dr.S.Pichi Reddy, Dept. of Mechanical Engineering has participated in "One day Workshop on Arduino" in Lakireddy Bali Reddy College of Engineering, Mylavaram on 08-02-2020.
5. Mr.J.Subba Reddy, Dept. of Mechanical Engineering has participated in "One day Workshop on Arduino" in Lakireddy Bali Reddy College of Engineering, Mylavaram on 08-02-2020.
6. Mr.B.Chaitanya, Dept. of Mechanical Engineering has participated in "One day Workshop on Arduino" in Lakireddy Bali Reddy College of Engineering, Mylavaram on 08-02-2020.
7. Mr.R.Praveen Kumar, Dept. of Mechanical Engineering has participated in "One day Workshop on Arduino" in Lakireddy Bali Reddy College of Engineering, Mylavaram on 08-02-2020.
8. Mr.A.Dhanunjay Kumar, Dept. of Mechanical Engineering has participated in five days workshop on "Tribological Response of Advanced (Nano) Composites" in NITW, Warangal from 24-02-2020 to 28-02-2020.
9. Mr.V.Sankararao, Dept. of Mechanical Engineering has participated in one week Faculty Development Program on "Advanced FEM & its Engineering Applications – Hands on Sessions" in JNTUK, Kakinada from 09-03-2020 to 14-03-2020.
- 10.

## FACULTY ACHIEVEMENTS

- **Mr.J.Subba Reddy**, Dept. of Mechanical Engineering awarded “3D Experience – Platform Explorer as Associate” by Dassault systems on 25.01.2020.
- **Mr.J.Subba Reddy**, Dept. of Mechanical Engineering successfully completed the online certification course on “MOODLE Admin Basics MOOC” on 14.02.2020.

## STUDENT ACHIEVEMENTS/ACTIVITIES

### STUDENTS PARTICIPATED IN CONFERENCES

- Karimulla.Sk (16761A03G3), K Suchith Samuel (16761A03E5), L.Naveen Kumar (17765A0333) are presented a conference paper on “**Poster Presentation on All Terrain Vehicle**” in International Conference on Transformations in Engineering Education (ICTIEE2020) organized by Anurag Group of Institutions, Hyderabad from 05.01.2020 to 08.01.2020.

### STUDENT PLACEMENTS

S.No.	Name of the student	Roll. No.	Name of the Company
1.	P.Krishna Vamsi	16761A0345	FACE ACADEMY
2.	R.Murali Krishna	17765A0322	
3.	Mohammad Yusuf	17765A0309	AIS GLASS INDIA PVT. LTD
4.	J Chandra Kanth	16761A0318	JUST DIAL
5.	V Vinay	16761A0355	
6.	R Rohith	16761A03F9	
7.	V Rama Brahma Chari	16761A03B0	Usha Fire Safety
8.	S Ravi Kumar	16761A03A4	
9.	J Chandra Kanth	16761A0318	
10.	P Siva Reddy	16761A0343	
11.	V.Abhishukth Prasanth	16761A03B5	
12.	Shaik Nuruddin	17765A0311	Sutherland Global Services
13.	Rasuri Rohith	16761A03F9	
14.	Kotagiri Saiteja	16761A0330	
15.	Parasa Krishna Vamsi	16761A0345	
16.	Jaya Venkata Satya Sai P	16761A0399	
17.	Nishad Md	16761A0394	





P.Krishna Vamsi  
16761A0345  
FACE ACADEMY



R.Murali Krishna  
17765A0322  
FACE ACADEMY



17765A0309  
Mohammad Yusuf  
AIS Glass India Pvt. Ltd



J.Chandra Kanth  
16761A0318  
JUST DIAL



V.Vinay  
16761A0355  
JUST DIAL



R.Rohith  
16761A03F9  
JUST DIAL



V.Rama Brahma Chari  
16761A03B0  
Usha Fire Safety



S.Ravi Kumar  
16761A03A4  
Usha Fire Safety



J.Chandra Kanth  
16761A0318  
Usha Fire Safety





P.Siva Reddy  
16761A0343  
Usha Fire Safety



V.Abhishukth Prasanth  
16761A03B5  
Usha Fire Safety



Shaik Nuruddin  
17765A0311  
Sutherland Global Services



R.Rohith  
16761A03F9  
Sutherland Global Services



Kotagiri Saiteja  
16761A0330  
Sutherland Global Services



P.Krishna Vamsi  
16761A0345  
Sutherland Global Services



Jaya Venkata Satya Sai P  
16761A0399  
Sutherland Global Services



Nishad Md  
16761A0394  
Sutherland Global Services

## STUDENTS QUALIFIED IN GATE-2020

- The following are the list of Mechanical Engineering students qualified in GATE 2020 examination.

S.No	Name of The Student	Roll No.	GATE Reg No.	Rank	Score
1	Y.V.V.Bhoga Sai	16765A0329	ME20S26013163	25012	317
2	G.Chitti Babu	15761A0318	ME20S11406929	25683	310
3	V.Ganesh	14761A0359	ME20S26008176	980	777
4	K.S.S.Phani Kumar	16761A0323	ME20S26008074	16093	420
5	K.Vinayak	16761A03D6	ME20S16009111	16854	411
6	M.Jaya Mani Kumar	15761A0336	ME20S16008299	10965	499
7	M.Jagadeesh Babu	15761A0394	ME20S16007166	15231	432
8	T.Naga Raju	15761A03B1	ME20S26007096	20263	368



Y.V.V.Bhoga Sai  
16765A0329  
GATE 2020 Reg. No:  
ME20S26013163



G.Chitti Babu  
15761A0318  
GATE 2020 Reg. No:  
ME20S11406929



V.Ganesh  
14761A0359  
GATE 2020 Reg. No:  
ME20S26008176



K.S.S.Phani Kumar  
16761A0323  
GATE 2020 Reg. No:  
ME20S26008074



K.Vinayak  
16761A03D6  
GATE 2020 Reg. No:  
ME20S16009111



M.Jaya Mani Kumar  
15761A0336  
GATE 2020 Reg. No:  
ME20S16008299



Students qualified in GATE 2020

### STUDENTS PARTICIPATED IN NSS

- The following are the list of Seating Committee Volunteers for 22<sup>nd</sup> Annual Day Celebrations on 15.02.2020 organized by LBRCE, Mylavaram.

S.No	Roll Number	Student Name	Year	Section
1	17761A0318	G PAVAN KUMAR	II	A
2	17761A0313	CH S SRINIVASA RAO	II	A
3	18765A0307	E PRASAD	II	A
4	18765A0303	B VENKATA GOPI	II	A
5	17761A0370	ETTE TEJA NADH	II	A
6	17761A0366	CH SAI SATYA PRAKASH	II	A
7	17761A0355	A D NAGESWARA RAO	II	B
8	17761A03F9	SRIGIRI SRI HARSHA	II	B
9	18765A0344	VEMULA DEVARAJA	II	B
10	18765A0335	GOPAE VEERANJANEYULU	II	B

- The following are the list of Volunteers for **Mahasivaratri Celebrations** from 21.02.2020 to 22.02.2020 in velvadam.

S.No	Roll Number	Student Name	Year	Section
1	17761A0318	G PAVAN KUMAR	III	A
2	17761A0349	S DIVYA JYOTHI	III	A
3	17761A03C2	CH ANANTA BABU	III	C
4	17761A03D2	G SUMANTH	III	C
5	18765A0344	V DEVARAJA	III	C

6	17761A03E0	M TIRUMALA RAO	III	C
7	17761A03D9	L KRISHNA KANTH	III	C
8	17761A03B6	B NUTHAN	III	C
9	17761A0376	G SAI REDDY	III	B
10	18765A0311	P LEELA SAI	III	A
11	18765A0301	A AKHIL KUMAR	III	A
12	17761A0341	S JAGADHISH	III	A

- The following are the list of Volunteers for **National Science Day** on 28.02.2020 organized by LBRCE, Mylavaram.

S.No	Roll Number	Student Name	Year	Section
1	17761A0365	CHIRASANI SRINU	II	B
2	17761A0388	L RANGA BABU	II	B
3	18765A0330	V RAKESH SAI	II	B

- The following are the list of Volunteers for **NSS Special Camp** at Ganapavaram Village from 4<sup>th</sup> -11<sup>th</sup> Mar 2020.

S.No	Roll Number	Student Name	Year	Section
1	17761A0319	J GURAVA REDDY	III	A
2	17761A0324	KORADA SANTHOSH	III	A
3	18765A0318	D SANTHI VARDHAN	III	B
4	18765A0325	PULLEPU SRIKANTH	III	B
5	18765A0303	B VENKATA GOPI	III	A
6	17761A0350	U SRINIVASA RAO	III	A
7	18765A0332	AMERE PRAVEEN	III	C
8	17761A03B3	B BHAVANA	III	C





NSS volunteers participated in Special Camp in Grama Sachivalayam, Ganapavaram



NSS Volunteers create awareness on using of Helmet



## STUDENTS PARTICIPATED IN NCC

- **S.Alekhyia (17761A0347)** III B.Tech A Section participated in “Ek Bharath Shresth Bharath–II” organized by Acharya Nagarjuna University, Nagarjuna Nagar, Guntur from 07.01.2020 to 18.01.2020.



S.Alekhyia participated in Ek Bharath Shresth Bharath–II

## ANNUAL DAY CELEBRATIONS

- The Department of Mechanical Engineering actively participated in 22<sup>nd</sup> Annual day celebrations conducted at Lakireddy Bali Reddy College of Engineering, Mylavaram on 15.02.2020.



Mechanical Engineering students received certificates from Honourable MLA and Management



Prayer song in 22<sup>nd</sup> Annual Day Celebrations



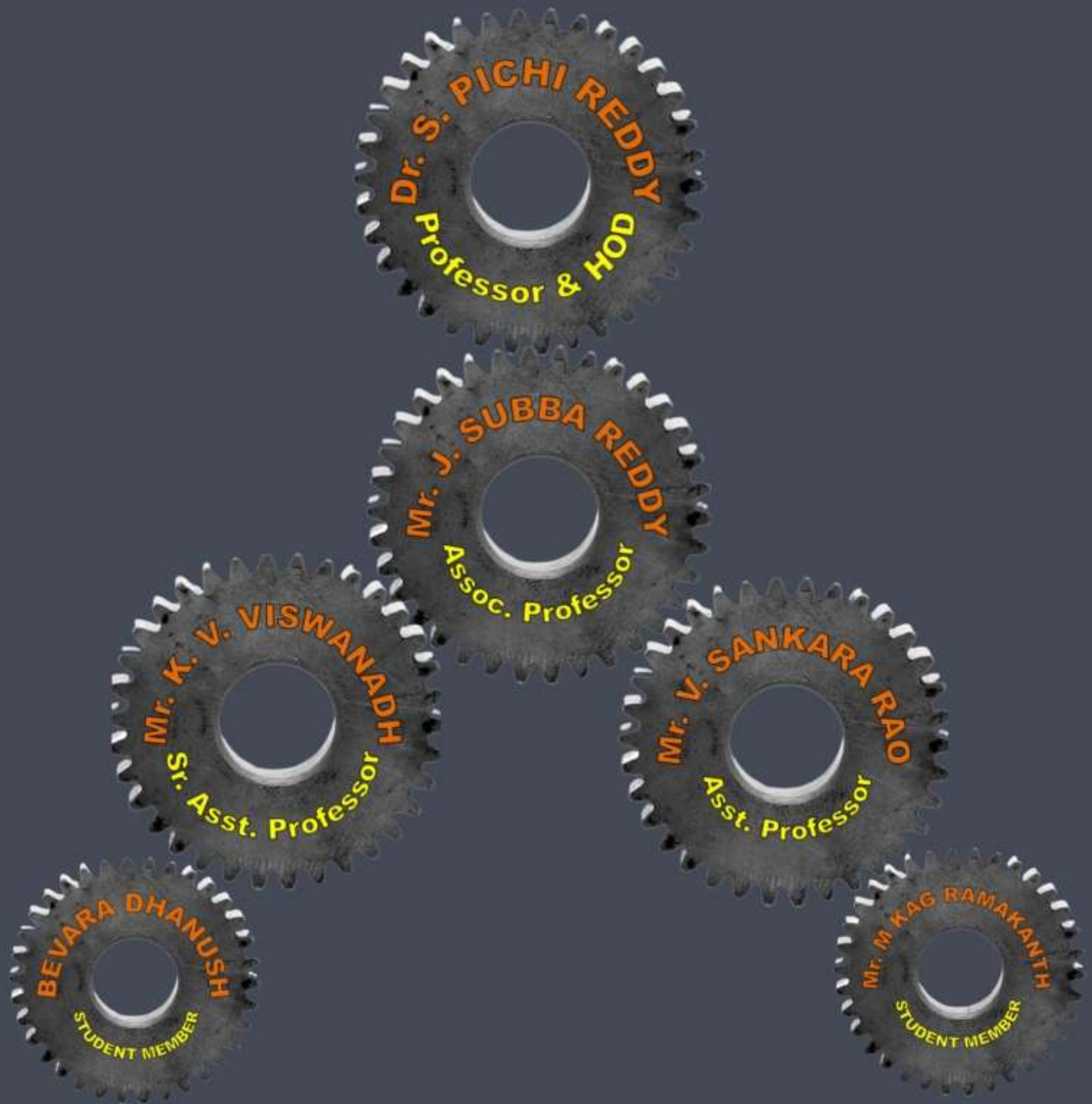
NCC Girls participated in 22<sup>nd</sup> Annual Day Celebrations

## ACKNOWLEDGEMENTS

*The department expresses sincere thanks to all faculty, technical staff and students for contribution towards the technical magazine- mech pulse.*



# Editorial Board



DEPARTMENT OF MECHANICAL ENGINEERING  
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING  
(Autonomous)

Accredited by NAAC & NBA under Tier - I  
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