

S.V. COLLEGE OF ENGINEERING TIRUPATI

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Mechanical Engineering

MECHANIX

2022-23 ODD Semester News Letter

July-December



*"Good friends, good books, and a sleepy
conscience: this is the ideal life." —
Mark Twain*



Mechanical Engineering

Vision of the Department

To impart knowledge with global perspectives in pursuit of excellence in Mechanical Engineering Education, Entrepreneurship and Innovation.

Mission of the Department

M1: To inculcate students with leadership skills with high level of integrity & ethical values for team building and team Work.

M2: To mold the young dynamic potential minds into full-fledged future professionals through effective teaching-learning Techniques & industry – institute collaboration.

M3: To serve the society through innovation and excellence in teaching and research.

Program Educational Objectives

PEO1: Graduates can demonstrate technical competence in Mechanical Engineering domain as they apply problem solving skills to conceive, analyze, design and develop products, processes and systems.

PEO2: Graduates can actively embrace leadership roles and strive hard to achieve professional and organizational goals with adherence to professional and ethical values, team expectations and sensitivities of cultural diversity.

PEO3: Graduates are committed to practice engineering strategies in industry and government organizations to meet the growing expectations of the Stakeholders and also contribute to the societal development.

About the Department

Mechanical Engineering, one of the oldest branches of Engineering, is a professional discipline that applies engineering, physics, mathematics, and materials science principles to design, analyze, manufacture, and maintain mechanical systems. As one of the oldest branches of engineering, Mechanical Engineering as a field of study is broad and diverse. With the need for skilled Mechanical graduates intensifying with every passing year, The Department has highly qualified and rich experienced faculty with an aim of providing quality educational service. The Department has good infrastructural facilities and is equipped with full-fledged laboratories and audio-visual systems. The department focuses research on Heat Transfer Enhancement, Alternative Fuels, Composite Materials and Advanced Machining Process etc.,

- The Department of Mechanical Engineering has formulated the following objectives:
- To facilitate students with real-time scenarios and hands-on training sessions through field trips.
- To equip students with practical knowledge to formulate and solve challenging problems.
- To enhance critical thinking and analytical skills of the students.
- To provide equal opportunities to all the students to learn and grow as well-rounded individuals.

Principal's Message



I have great pleasure in conveying my best wishes to the Department of Mechanical Engineering for releasing the technical magazine “Mechanix” which brings the students and teachers of various disciplines on a common platform to share and display their ideas and creative talents. I wish all the students who have involved in bringing out the magazine for their greater success and career ahead.

Dr. N.SUDHAKAR REDDY, ME, Ph.D, FIE, MISTE.

PRINCIPAL

HOD's Message



Mechanical Engineering is a versatile and evergreen branch of engineering. Mechanical engineer can work in various fields like automotive system, aerospace engineering, design engineering, dynamic system and control, power plant engineering, etc. and most importantly in software field also. Department has well qualified and dedicated faculty with well-developed laboratories. We impart quality engineering education through sound theoretical knowledge, hands on laboratory as well as computational skill and exposure to recent technologies by visiting industries & expert talk. We provide opportunities for students to participate in various technical and sports events /competitions. This newsletter is an attempt to highlight the achievements of the department, in spite of the space constrain we have showcased the best and look forward to have more in the future on a quarterly editions. I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter.

Dr. M.CHANDRA SEKHARA REDDY, M.Tech, Ph.D, FIE, MISTE.

Head of the Department M.E,S.V.C.E, Tirupati

Faculty Corner



Publications:

- **Dr. Vamsi Krishna M** has published a research article (SCI) on Influence of coated electrode in nano-powder mixed EDM of AL-Zn-Mg-Si3N4 Composite, Advances in material science and engineering, Hindawi. 15-10-2022 .
- Dr M Chandra Sekhar Reddy has published an International conference paper on “Development of Aluminium based metal matrix composites by stir casting method”, Materials Today Proceedings, Elsevier, Sep 16 2022.

Book Publications:

- Dr. Rajesh published a book chapter titled "Development of Al6061/CNT Metal Matrix Nano Composites and Optimization of its Process Parameters in Drilling", on 29-12,2022.

Organized/Attended Seminars:

- Dr. Rajesh was recognized as a translator by AICTE and translated “Workshop/ Manufacturing Practices with Lab Manual”, on 29-12-2022
- Mr. Anjan Kumar D, attended the online FDP on “Advanced Technologies for Emerging Research”, Mechanical Engineering, organized by Annamacharya Institute, Dec to Dec 9, 2022.
- Mr. Guru Mahesh awarded with prestigious Guru Spandana Puraskar 2022, by Spandana EDA International Foundation, in the month of Nov, 2022.
- Mr. Guru Mahesh attended FDP on “Thermal Science and Materials Engineering”, organized by Srinivasa Ramanujan Institute of Technology, Anantapur, from 7-11-2022 to 11-11-2022.
- Mechanical department organized an industrial visit at SIBAR Auto parts limited, Tirupati as a part of orientation program for the first year mechanical students who joined in the year of 2022, 20-10-2022.
- Dr. M Vamsi Krishna, attended online Faculty Development Program conducted by Institutions Innovation Council, MOE's Innovation Cell, Sep 22 2022.
- Dr. Renuga Devi delivered a webinar innovations in fiber reinforced composites organized by Saveetha Engineering College, Dept of Heat transfer Engineering, on 30-09-2022.
- Mechanical Engineering Department, SVCE, published couple of research articles and has encouraged the students to participate in some of the online skill development programs and insisted the students to register in internship platforms such as <https://apschelms.e-pragati.in/#/> and <https://internship.aicte-india.org/> etc., and conducted student career motivational training in their classrooms.

Lectures Delivered:

- Dr. Rajesh received an appreciation letter for delivering an online webinar on "Career Advancements and opportunities in Mechanical Engineering", 19 Dec, 2022

IEDC Projects:

- Dr. K. Madhivanan, Associate Professor, has completed the project on “**WEPONOBOT**” through Innovation and Entrepreneurship Development Cell (IEDC), ME Department.
- Dr. E. Venkata Kondaiah, Associate Professor, has completed the project on “**DESIGN & DEVELOPMENT OF BORE WELL RECUE SYSTEM**” through Innovation and Entrepreneurship Development Cell (IEDC), ME Department.

Student Corner



Results and Toppers

I B.Tech I Semester

Total students registered	: 59
Total students passed	: 19
Pass Percentage	: 32.20%

List of Toppers

S.No.	Roll Number	Name of the Student	%
1	21BF1A0340	Metta Shiva Ganesh	88.94
2	21BF1A0329	K Raghavendra reddy	88.40
3	21BF1A0333	Kannuru Nookinaidu	84.47
4	21BF1A0337	M Lava Kumar	84.47
5	21BF1A0336	Koppulu Kusuma	84.15

II B.Tech I Semester

Total students registered	: 138
Total students passed	: 116
Pass Percentage	: 84.05%

List of Toppers

S.No.	Roll Number	Name of the Student	%
1	20BF1A0368	BANDLA PUJITHA	96.63
2	21BF5A0302	MIDUTHURU MIHANA BHANU	95.69
3	20BF1A0319	CHINTHAKALYALA SAI	95.61
4	20BF1A0312	BIJJAM SUNIL REDDY	95.20
5	20BF1A0324	GULURU KALYAN	94.18

III B.Tech II Semester

Total students registered	: 126
Total students passed	: 86
Pass Percentage	: 68.254

List of Toppers

S.No.	Roll Number	Name of the Student	%
1	20BF5A0301	ARAVA SYAM	84.29
2	20BF5A0307	GANUGAPENTA OM SAI	83.78
3	20BF5A0310	JAMUDUMAKULA VINAY KIRAN	83.78
4	20BF5A0309	GUDIKATI SUMANTH REDDY	83.67
5	20BF5A0312	KOTHALA LAVANYA	83.67

IV B.Tech II Semester

Total students registered	: 127
Total students passed	: 112
Pass Percentage	: 88.18

List of Toppers

S.No.	Roll Number	Name of the Student	%
1	18BF1A0335	JANAKI BASKAR SAI BHANSEEDHAR	90.20
2	18BF1A03A1	THUMATI TENDULKAR	90.00
3	18BF1A03A7	VEMULA MARUTHI NEERAJ	89.80
4	19BF5A0314	POSAM TIMMAREDDIGARI THARUN	89.60
5	19BF5A0313	POLU MANOJ KUMAR REDDY	89.20



STUDENT SEMINARS

- Mechanical Department organized an online webinar on “Solar PV Systems Design and Integration”, Resource person: Dr. P. Badri Narayana, on 30 Dec 2022.
- Mr. Gurumahesh organized a seminar on “How to select the final and prefinal year engineering project topic, Resource person: Dr. M Rajasekhara Reddy, on 6 Dec 2022.
- Mechanical Department organized an online Alumni Webinar on “Make your mark-how to stand out in a rapidly changing technological world”, Resource person: PVNS Haripriya, on 26 Nov 2022
- Dr. N Rajesh, has organized a seminar on “A case study on QCC 12 step methodology”, to share the knowledge about the industry practices of quality improvement and quality sates, held at SVCE, Tirupati, on 25 Nov 2022.
- Mr. A Venugopal, has organized a seminar on “Opportunities to Become an Enterpreneur”, to improve the student entrepreneurship skills, held at SVCE, Tirupati, 24 Nov 2022.
- Mechanical department organized an industrial visit at SIBAR Auto parts limited, Tirupati as a part of orientation program for the second-year mechanical students who joined in the year of 2021, 23 -11-2022. Further, Mechanical Department conducted placement training for the students who are in third year for getting better opportunities.
- A Workshop has been conducted by the Department of Mechanical Engineering, SVCE, Tirupati, on “Career Counselling session for Mechanical Engineers” delivered by “Skill Lync” on Sep 26 2022.
- Mechanical Engineering Department has conducted a workshop called “**Quadcopter**”, a Training on Drone Technology with hands on experience, SVCE, on 14th and 15th July, 2022.
- **Dr. Chandrasekhar Reddy, Dr. Vamsi Krishna, and Dr. Jagath** have conducted classroom sessions on the awareness of internship programs <https://apschelms.e-pragati.in/#/> and <https://internship.aicte-india.org/>, and its important role in clearing the interviews.

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NEW RELEASE



DEVELOPMENT OF AL6061/CNT
METAL MATRIX NANO COMPOSITES
AND OPTIMIZATION OF ITS PROCESS
PARAMETERS IN DRILLING

N. RAJESH
P. VENKATARAMAIAH



amazon
BARNES & NOBLE
Lightbulb
INGRAM

ELVA

 **SVCE TIRUPATI**
EDUCATION FOR A BETTER SOCIETY

 **DreamBIG**

Organized by
Department of Mechanical Engineering

WEBINAR ON
“HOW TO SELECT THE FINAL & PREFINAL YEAR
ENGINEERING PROJECT TOPIC - ROADMAP”

10:00 AM to 12:00 PM
06-12-2022, Tuesday

MODE: ONLINE



GOOGLE MEET

SPEAKER:
DR. M. RAJASEKHARA REDDY, Ph.D.
Assistant Professor (Sr-Grade 1)
Department of Design and Automation,
VIT University, Vellore.

Convener : Dr. M Chandra Sekhara Reddy
Co-Convener : Mr. G Guru Mahesh

www.svce.edu.in

STUDENT PARTICIPATIONS


SVCE TIRUPATI
 EDUCATION FOR A BETTER SOCIETY


 INSTITUTION'S INNOVATION COUNCIL
(Creating the Innovations)


 IEEE Robotics & Automation Society


DreamBIG

Organised by
Department of Mechanical Engineering in
Association with IIC, IEEE & ISTE

WEBINAR ON
"SOLAR PV SYSTEMS DESIGN & INTEGRATION"




 30-12-2022, Friday
 02:00 PM to 04:00 PM

MODE: ONLINE

GOOGLE MEET

SPEAKER:



Dr.P.BADARI NARAYANA
 Associate Professor (ME), MGIT Hyderabad
 Founder Director, Green Life Energy Solutions,
 LLP, Hyderabad.

Convener : Dr. M Chandra Sekhara Reddy
Co-Convener : Dr.K Renugadevi

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SVCE TIRUPATI
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DreamBIG

Organizing by Department
of Mechanical Engineering

ALUMNI WEBINAR ON
"MAKE YOUR MARK: HOW TO STAND OUT IN A
RAPIDLY CHANGING TECHNOLOGICAL WORLD"




 10:00 AM to 11:00 AM
 26-11-2022, Saturday

MODE: ONLINE

GOOGLE MEET

ALUMNI SPEAKER:



PVNS HARI PRIYA
 Junior Software Engineer
 CTS

BATCH : 2018-2022

CONVENOR : Dr. M CHANDRA SEKHARA REDDY
CO-CONVENOR : Dr. K RENUGADEVI

www.svce.edu.in



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

CERTIFICATE OF APPRECIATION

This certificate is presented to


Dr N Rajesh

Sri Venkateswara College of Engineering, JNTUA

for contributing as a translator of the book
"Workshop / Manufacturing Practices (with Lab Manual)"
 of 1st year Undergraduate program in Telugu under
 AICTE Technical Book Writing Scheme as per the
 requirement of
National Education Policy-2020

M Jagadesh Kumar
(Prof. M. Jagadesh Kumar)
 Chairman, AICTE





MECHANICAL ENGINEERING ASSOCIATION 2022-23
LET'S PLAY IDENTIFY ME

GPS Map Camera

Tirupati, Andhra Pradesh, India
 MF5P+FQ, Mangalam, Tirupati, Andhra Pradesh
 517507, India
 Lat 13.658811°
 Long 79.487091°
 20/12/22 11:17 AM GMT +05:30

GPS Map Camera

Tirupati, Andhra Pradesh, India
 MF5P+FQ, Mangalam, Tirupati, Andhra Pradesh 517507, India
 Long 79.486956°
 Lat 13.658698°
 20/12/2022 11:01 AM

STUDENT PARTICIPATIONS

- Mechanical Department organized, Mechanical Engineering Association- MEA-2022 program, and conducted various technical events such as Paper presentations, Poster Presentations, Technical Quiz, Just a minute, etc. and nontechnical events such as Tug of war, Musical chairs, Gully Cricket, Treasure hunt etc., on 20 Dec 2022.
- Mechanical Final year students presented/showcased their projects at Abdul kalam Project expo, Mahati Auditorium on 15-10-2022.
- SVCE has conducted **AMPLE-2K22**, a Techno cultural program for students for active participation and to improve their confidence in all aspects, this program is conducted at SVCE, on 14th, 15th, and 16th July 2022.



Mechanical Engineering Association Events Technical and Non-Technical Events on 20-12-2022

Editorial Board

Head of the department : Dr. M.Chandra Sekhara Reddy, Professor & Head/M.E

Staff Advisory Committee : Mr. S.Jaya Kishore, Assistant Professor, Dept. of M.E

Editors : A.Syam, III M.E

: C.Sai, II M.E

Sri Venkateswara College of Engineering Campus

