



SWARNANDHRA

College of Engineering and Technology
(Autonomous)

Seetharampuram, Narsapur, Andhra Pradesh 534280



To educate and enrich effective and responsible Mechanical Engineers to fulfill the needs of industry and society.

MECHAZINE

BI - ANUAL MAGAZINE

DEPARTMENT OF
MECHANICAL ENGINEERING

Editorial Members

1. Dr A Gopichand, HOD-ME
2. Dr R. Lalitha Narayana, Assoc. Prof - ME

Student Coordinators:

1. G Kumar Datta (20A25A0321)
2. P S S S Prasad (20A21A0354)



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- To lay a strong foundation of technical knowledge by concentrating on fundamental concepts of Mechanical engineering.
- To develop creative thinking and innovative methods for solving complex engineering problems.
- To develop team spirit, leadership and professional qualities.

ABOUT DEPARTMENT:

The Department of Mechanical Engineering was established in the academic year 2004. The Department presently offers Under-graduate study program leading to the degree of Bachelor of Mechanical Engineering and Post Graduate program M.Tech CAD/CAM. The initial intake of the department is 60 in UG Program. Then the Department got approval for additional intake of 30 in 2008 another 30 in 2009, latter 60 more seats were added in 2015 with approval from



AICTE for UG Program. PG Program - M.Tech. (CAD/CAM) is started in 2009 with an intake of 18. Thus the present intake is 180 in UG and 18 in PG Programs. The department is broadly divided into three academic groups:

- Machine Design
- Industrial & Production Engineering
- Thermal Engineering.

The Department has highly qualified and experienced staff in all streams of Mechanical Engineering. Interactive relationship is maintained between the students and staff. The department consists of various laboratories and facilities with modern sophisticated equipment. The faculty actively participates in sponsored research and consultancy work, conducts seminars and short-term courses. The department has carved itself, a niche as one of the finest in the state.

The department of Mechanical Engineering has successfully completed a research project titled “Experimental investigations of Edible and non-edible oil/blends for performance and exhaust gas analysis for suitability as alternative to diesel oil”, sponsored by AICTE under RPS scheme. The department is equipped with modern systems and tools like FMS system, Computer operated IC Engine and Taly surf for surface roughness measurement etc. Students also published various papers in reputed journals. The department of mechanical engineering has organized National conference and several workshops, seminars and Faculty development programs periodically. Presently the department focuses on research areas such as Analysis of 3D Fracture in composite materials using ANSYS, Conducting Performance and Emission tests on various bio fuels using Computerized Multi fuel Variable Compression Engine, Surface roughness tests for artificial teeth and Optimization of various parameters to obtain better surface finishing of various metals and Alloys.



INSTITUTION VISION MISSION

VISION:

"To produce global competent, ethical and dynamic professionals by creating Centre of Excellence in Technical Education for societal empowerment."

MISSION:

- To provide quality education with knowledge and skills for rural and urban students.
- To collaborate the industries with academia for empowering the students to meet global standards.
- To induce highly ethical entrepreneurship in young minds with good leadership quality for the society.
- To enhance the institution in Research and Development by human intellectual capability.

DEPARTMENT VISION MISSION

VISION:

- **To educate and enrich effective and responsible Mechanical Engineers to fulfill the needs of industry and society.**

MISSION:

- **M1 - To lay a strong foundation of technical knowledge by concentrating on fundamental concepts of Mechanical engineering.**
- **M2 - To develop creative thinking and innovative methods for solving complex engineering problems.**
- **M3 - To develop team spirit, leadership and professional qualities.**
- **M4 - To strengthen research abilities in collaboration with industry.**



Explore the Universe

Principal's Desk:

It is my pleasure to welcome you to Swarnandhara College of Engineering and Technology (SCET) under Vasista Educational Society.

SCET is one of the premier institutions offering education in engineering and management providing quality education to students from all strata of society. SCET was established in 2001 with a vision to be a world class institution for technical education and scientific research.



Dr.S.Suresh Kumar ,BE,MS,M.Tech.,Ph.D.
principal@swarnandhra.ac.in

"GAINING KNOWLEDGE, IS THE FIRST STEP TO WISDOM. SHARING IT, IS THE FIRST STEP TO HUMANITY."

HOD'S Desk:



Dr. A Gopichand M.Tech, Ph.D
Professor, HoD-ME
mechhod@swarnandhra.ac.in

I feel ecstatic to introduce you to Department of Mechanical Engineering, which is the foundation of Engineers. Department of Mechanical Engineering strives for increasing the knowledge, enhancing the critical thinking, ability to change information into knowledge and power of analyzing the things technically of each and every individual of ever changing society through students.

Best of luck for all your future endeavours!

Papers published by Faculty

S. No	Name of the Faculty	Journals Details	Paper Title	ISSN/ Published year
1.	Dr. Allaka Gopichand	Computer Integrated Manufacturing Systems	Strength and corrosion characteristics of sandwich pipes for deep water applications	ISSN1006-5911, 2022
	P Satya Narayana Raju			
2.	Dr. M. Francis Luther King	Advances in Materials Science and Engineering	Acrylic Rubber- Reinforced Halloysite Nanotubes/ Carbon Black Hybrid Fillers for Oil seal Applications: Thermal Stability and Dynamic Mechanical Properties	ISSN: 1687-8442, Dec 2022
3.	Dr. R. Sanjeev Kumar	Materials Science Forum	Influences of Fabrication Parameters on Natural Fiber Reinforced Polymer Composite (NFRPC) Material: A Review	ISSN: 1662-9752 July 2022

WORKSHOP ATTENDED BY FACULTY:

S.NO	Name of the staff	No of NPTEL course completed	No of FDP'S Attended
1	Dr. G. Robert singh	2	2
2	Dr. Francis Luther king M		2
3	Dr R Lalitha Narayana	1	1
4	Mr. B Srinivas	1	1
5	Mr. P. Satyanarayana Raju		1
6	Dr D Bhanu Prakash		2
7	Dr. R. Sanjeev Kumar		1
8	Mr. V Durga Rao	1	2
9	Mr. N Bulli Raju Srinivas		2
10	Mr. V Rambabu		1
11	Mr. G Veerendra Kumar		1
12	Mr. V John Bunyan	1	1

STUDENT FOCUS:

- V Rakesh Chowdhary, V Rakesh and V Santhosh Varma won 2nd prize in DEALTH VALLEY ROBO RACE in ADVITIYA 2022.
- N Sri Venkatesh won 3 prize in PARER PRESENTATION in ADVITIYA 2022 fest.
- V Rakesh Chowdhary, Y Rama saicharan, B Lavanya, Y DeviSri, K Raviteja participated in “ A Two day workshop on MAZE SOLVING ROBOT AND MAZZY COMPETITION” held at Saraswathi college of engineering, Theni on 28 & 29th sept 2022.
- V Rakesh Chowdhary won 2nd prize in “SRUJANA 2K22” on 20th july 2022 and 1st prize in Maze O Mania and 2nd prize in Young Innovations in “YANTROTSAV - 2K22” on 16, 17th december 2022 .
- S Vamsi Krishna won 2nd prize in Robo Race of VALIANT 2K22 organized by VIT, Bhimavarm.
- G Yugala Sai Lakshmi, A Sravani won 1st prize in 'BADMINTON DOUBLES' in Engineer's day 2022 and also in Advitiya 2022.

Innovation is a part of the system to drive young minds towards development of innovative products, achieving in various Hardware & Software Hackathons, Coding Challenges and Project Contests at various levels. As technology advances in today's market, faculty members prepare students as prospective entrepreneurs also.

Learning for Life: Institution provides high level of education for successful development of self-confidence and motivation. The college helps them to triumphantly handle the complexities of our society. It promotes healthy life style behaviours.

IMPORTANT EVENTS IN THE DEPARTMENT:

SNO	EVENT NAME	EVENT	DATE	RESOURCE PERSON
1	Indian Design Week	Training	8-9-2022 to 14-9-2022	Mr. Kranthi Kumar P from ICT Academy, Chennai
2	Recent trends in industry	Guest lecture	28-9-2022	B T D Praveen Varma Product manager in Eruvaka Technology P.Ltd
3	Design now workshop	workshop	22-10-2022	Mr. Kranthi Kumar P from ICT Academy, Chennai
4	ARC International Internship Program	Training	29-08-2022 to 30-10-22	Mr B VamsiKalyan ARC trainer
5	ARC workshop	workshop	31-10-22	Mr B VamsiKalyan ARC trainer
6	YANTROTSAV 2K22	National level technical fest	16 – 12-2022 to 17 – 12-2022	Fest
7	My story motivational sessions by a successful entrepreneur	Workshop	3-12-2022	Mr V L K Vara Prasad Entrepreneur
8	Development of modern composite armour systems for light weight armoured vehicles	Webinar	20-12-2022	Mr P Pawan Kumar Research Schalor – IIT Roorkee

GALLERY



Students secured prizes in various events

Robo Soccer



kabaddi

Sports

Volleyball



Yantrostav 2k22 fest poster inauguration



BUSINESS IDEAS Innovation & Design Thinking

West Godavari, Andhra Pradesh
CM95+J54, Swarnandhra Of Engineering
Sitarampuram, Andhra Pradesh 534275, IN
Lat 16.419079°
Long 81.657908°
25/04/23 11:05 AM GMT +05:30