



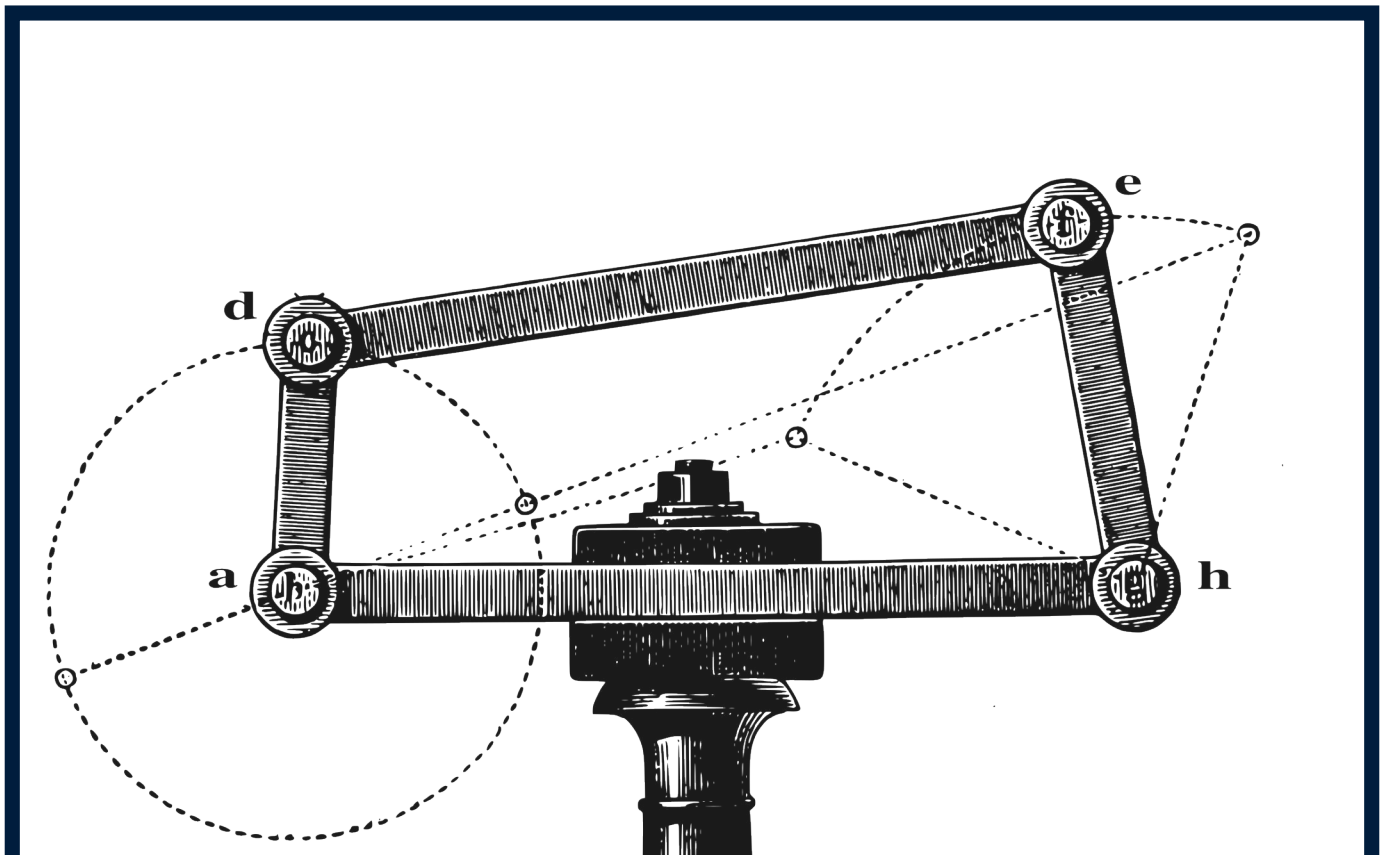
St. Martin's Engineering College



UGC - AUTONOMOUS



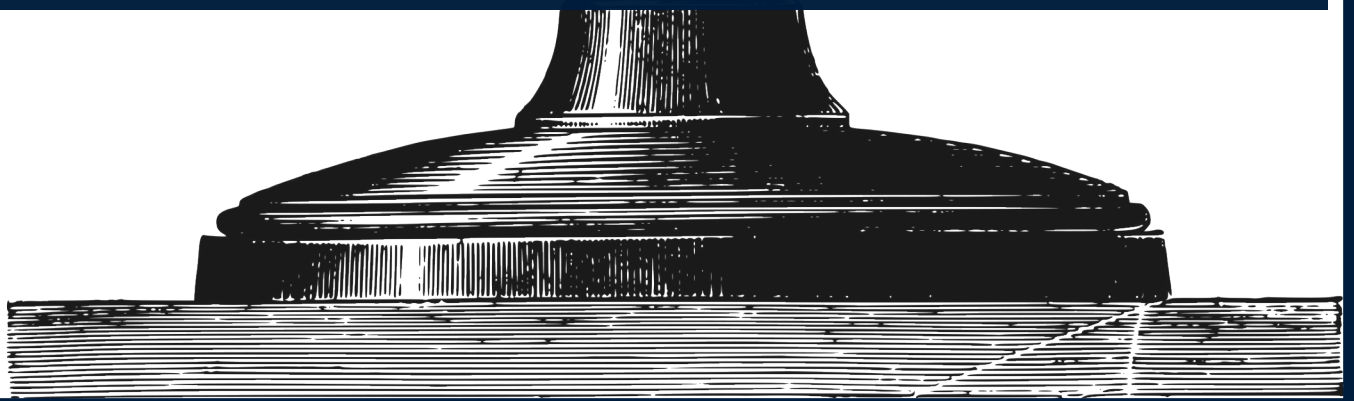
UGC AUTONOMOUS



Department of Mechanical Engineering
Presents

yanthrik

Quarterly Newsletter
Volume 1 Issue 1 July 2022



Messages 3 -5

Principal
HOD
Faculty
Alumni

Students Achievements 6-12

Student's Academic Achievement
Message from Toppers
Sports

Placements 13 -19

Student Corner 20 - 25

Art Gallery
Talent Showcase
Birthday Corner

Staff Corner 26 - 31

Journals
Conferences
Patents
Books

Events 32 - 37

Technical Event
Industrial Visits
Non Technical Events

Organisations 38 - 40

Editorial Board 42 - 43

Message from the Principal



Dr. P. Santosh Kumar Patra

The Department of Mechanical Engineering at St. Martin's Engineering College has a vision to become a world-class department by excelling in research and development areas through sustainable growth and strives to produce the best mechanical engineering professionals. I have been keenly watching and confident in stating that the department has been living and trying to achieve the vision commitment by their continued effort to be in the forefront in all academic and co-curricular events. In their attempt they are very, much ahead and are bringing out their first newsletter. "Yanthrik"

Message from the Head of Department

Dr. D V Sreekanth

Professor & HOD Mechanical

The Department of Mechanical Engineering is happy to bring its own news letter named "Yanthrik". The purpose is to motivate the students and staff by highlighting the important activities every quarter of an academic year. The first news letter is for the period of July 2021 to June 2022. This year has been eventful, and we are glad to present it, and we would like to improve the letter as we progress further. I appreciate the team which worked on the compilation and gave it a good shape as it was their maiden attempt. I am sure my team and my students will definitely benefit from this periodically.



Message from the Faculty



Dr. Ravi Naik
Associate Professor

The goal of the newsletter is to keep you updated with developments in the Mechanical Engineering Department of SMEC. This department is continuously undergoing transformation. New initiatives have been launched related to academics, student affairs', research and extra curricular activities. 'YANTHRİK' has been initiated to provide a platform for showcasing the activities and achievements of our department. Department had made concrete plans for several activities and successfully implemented them. Participation and success in various events and competitions which became rich content for the newsletter. The students and faculty members of the department are sincerely participating in various activities organised at institute or at other places. It is elevating to see the sound performance of students.

Message from Alumni



Y GOPI PRAJWAL
17K81A0360

SMEC was more than a college to me. Its a privilege to be connected to this institution. A place where I gained knowledge, best needed for the survival in outer world and confidence. Right from day 1 energy and enthusiasm is what I experienced ,be it faculty or students. the teaching methodology adopted by the professors. The R&D center where our innovative ideas and the problems solved. An Amazing institution which teaches you self discipline, confidence and problem solving an essential traits to start your journey .

University Gold Medalist

16K81A03D7

Sankathali Srikanth

8.88



Gold medal always feels great ! It is not made of gold but it is of our hard work, dedication, sacrifice & most of all, love for what we are doing .In fact any appreciation is a great moral booster for our career. I want to thank my parents, college and all my faculty for their support in paving way for my life. They are really equal to hundred books. In four years of Engineering we were not there to learn facts but to train our mind to think and this way of thinking helped us to evolve as job creators rather than job seekers. Always my college made me to explore more and I am really proud to be a Martinian.

- S Srikanth

ACHIEVEMENTS

6

II Year



Akash Kumar
9.13 CGPA



T Ajay
8.71 CGPA



E Bhanu Prakash
8.71 CGPA



G Pravalika
8.52 CGPA



P Srujan
8.52 CGPA

III Year



V Sandeep
8.33 CGPA



M Shivakumar
8.33 CGPA



G Varun Kumar
7.92 CGPA



T Mahipal Reddy
8.24 CGPA



Ch Pranay
7.86 CGPA



Vaishnavi Dinesh
8.19 CGPA

Ch.Pranay

Im really happy to get such grades. The only routine which help me acheive this was 5 hours of studying and 7 hours of sleep. To understand the Concept deeply, referring 2 textbooks is must. I sincerely thank my family and my professors for their great support.



Akash Kumar

I believe that, “hard work beats luck”. I am very grateful to all my respected teachers and Department as the situation was tough, but their efforts did not hamper our education. At last, I would say that result comes after immense hard work and blessings of the almighty, and if you don't get the desired result, then just believe in yourself.

G Pravalika

I'm really happy to get such grade, big thanks to my parents and lectures for their sincere support.



Guide to Score Good Grades

Read the syllabus carefully as soon as you get it, to learn what the professor thinks you should be able to accomplish by the end of the course. Note the due dates of exams in your calendar. Start assignments early so you have time to really think about them, set them aside, and return for a fresh perspective. Do the work yourself, cheating on homework by looking up the answers online will just make it more likely that you'll do badly on exams. Think about how the current course relates to material from past courses or the other ones you're taking alongside it. Putting together the big picture will make each course more understandable. When studying for exams, do practice problems you've never seen before from scratch, try to write up an annotated course outline summarising what you've learned. Reading over your notes isn't an effective way to study. You have to do something active that forces you to examine or apply the material in a fresh way.

The first bit of advice I would give is to take classes that you have interest in. Even the most 'boring' pre-requisite classes offer up some choice to the students of several classes that will fulfil that requirement. Choose the one that is most interesting to you. It's a lot easier to do well in a class if you are interested in the topic. If none of the classes seem remotely interesting to you, then perhaps this isn't a good time in your life to be

going to college, as you should be somewhat eager to learn something.

First, and most importantly, go to every class the first week and pay close attention. Get the syllabus and study it carefully. The syllabus for each class should outline the entire semester for you and allow you to start planning your investment of time into that specific class strategically. Put every quiz, mid-term, final, research paper and homework assignment that is due in your calendar and set a reminder for yourself. It is imperative that you do not miss any of these if you want at least a B.

Now when you take your first mid-term or get your first major homework assignment, you should be able to have a good feel for what that professor expects from you for the rest of the class. Even if you don't do well, at this point there should still be time for a course correction and many professors will not only be lenient, but will place a fair amount of weight into boosting someone's grade who shows improvement from this time on. So if you miscalculated a bit on whether the lecture or the textbook was more important, or how heavily weighted the quizzes and homework assignments were, this is the time to adjust.

- Mr. Mukunda Dabair

Asst. Professor
Mechanical Department



SMEC Football team secured First Place in Ashwanthama Football tournament by SNIST

7th - 9th December 2021

Shaik Kaif 18K81A0351

Sunil 18K81A0383

Chanakya K 19K81A0320



SMEC Football Team won 13th Indian Open Inter Engineering Collegiate Sports Fest

**1 -2 June 2022
@VNR VJiet**

SMEC Football team secured First Place in Phoenix'22 Football tournament by VJIT



K Chanakya
19K81A0320
III year



రసవత్తరంగా ఎస్పీఎల్ మ్యాచ్లు



సెయింట్ మార్టిన్స్ ఇంజనీరింగ్ కళాశాల జట్టు విజయ దరహాను..

SMEC Cricket participated in Sakshi Cricket tournament

7th - 9th December 2021

- Raif 18K81A0392
- G Naveen Kumar 18K81A0324
- Gangaya 18K81A0305
- Durga Prasad 18K81A036



Raif
18K81A0392
III year
Runner- up
CCL Gold Cup of
Co-operate Matches

17th - 19th March 2022
Abdul 21K85A0399
Aman 20K81A0331

SMEC Basketball
team secured
third place in Inter
University Sports
Fest held in Malla
Reddy University



SMEC Volleyball team
secured third place in
Indian Open Inter
Engineering
Collegiate Sports Fest
held in VNR VJIT

Rakesh 21K85A05K0
V Sandeep 20K85A0315
Pandit Rathod 21K85A0376

Importance of sports for young adults

Sport is as old as humanity itself. It's kept societies fit and healthy while building strong communities and boosting morale. In this modern world of iPhones and laptops, the importance of sports is more relevant than ever. Competitive physical exercise not only motivates children and adults to get outside and keeps fit, but it also instils important values. For many people, sport is taken for granted. It's something that exists in the background but isn't considered particularly valuable. Maybe it's seen as a bit of fun on the weekend but ultimately, not all that important. This couldn't be further from the truth. Sport matters and the importance of sports need to be more widely discussed. Without it, many aspects of modern society will crumble. From health and happiness to education and society, sport matters. Promoting sports, inspiring young athletes, and increasing healthy competition will help individuals and communities to flourish.

- **Abdul, Aman**

II year Mechanical



Raif

18K81A0392

III year

Cricket Captain SMEC

Successfully Placed

Top Placement



19K85A0305
Minigi Shiva Kumar
KROLL
5 LPA

18K81A0322
G Prasanna Hamsika
Accenture
4.5 LPA



18K81A0339
N Nithish Kumar Reddy
Accenture
4.5 LPA



18K81A03A7
S Srivatsava
Accenture
4.5 LPA



19K85A0311
U Naresh
Accenture
4.5 LPA



19K85A0368
Sriramojula Avinash
Accenture
4.5 LPA



18K81A0306
B Radha Rakesh
Capgemini
4.0 LPA



19K85A0341
Saikiran Kandunuri
Capgemini
4.0 LPA



18K81A0351
Shaik Kaif K
Capgemini
4.0 LPA



18K81A0390
M K Ram Prasad Naidu
Capgemini
4.0 LPA



18K81A0343
Sree Harshith Naidu
Cognizant
4.0 LPA



18K81A03A3
Manish Chand R
Cognizant
4.0 LPA



18K81A03B8
Vikas Reddy Kottala
Cognizant
4.0 LPA



19K85A0308
Abhilash Kammari
Cognizant
4.0 LPA



19K85A0315
V V R Machi Reddy
Cognizant
4.0 LPA



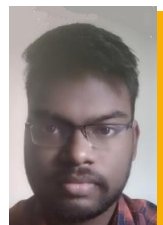
19K85A0333
Garlapati Sai Sampath
Cognizant
4.0 LPA



19K85A0342
Pavan Sai Kumar K
Cognizant
4.0 LPA



19K85A0367
Yogananda Sai Kumar S
Cognizant
4.0 LPA



19K85A0315**Vishnu Vardhan Reddy M R
Infosys 3.60 LPA****19K85A0367****Yogananda Sai Kumar Sikhakolli
Infosys 3.60 LPA****18K81A0383****Gangupamu Sai Sunil
Infosys 3.60 LPA****18K81A0387****Korra Ajith
Infosys 3.60 LPA****18K81A0390****Marada Kodanda Ram Prasad
Infosys 3.60 LPA****19K85A0305****Minigi Shiva Kumar
Infosys 3.60 LPA****19K85A0315****Vishnu Vardhan Reddy M R****19K85A0341****Saikiran Kandunuri
Infosys 3.60 LPA****18K81A0314****Devaraju Shirisha Sree
Zelf Studie 3.60 LPA****18K81A0326****Kailas Sai Nishta
Zelf Studie 3.60 LPA****18K81A0328****Kankarla Bharath Kumar
Zelf Studie 3.60 LPA****18K81A0351****Shaik Kaif Khundmeer
Zelf Studie 3.60 LPA****18K81A0390****Marada Kodanda Ram Prasad
Zelf Studie 3.60 LPA****18K81A0398****Padamati Pavan Reddy
Zelf Studie 3.60 LPA****19K85A0301****Shaik Muzafar
Zelf Studie 3.60 LPA****19K85A0309****Naveen Goru
Zelf Studie 3.60 LPA****19K85A0312****Dashannagari Lalasa
Zelf Studie 3.60 LPA****19K85A0317****Akasha Balaji
Zelf Studie 3.60 LPA****19K85A0323****Baireni Rakesh
Zelf Studie 3.60 LPA****19K85A0332****Gargula Vamshi
Zelf Studie 3.60 LPA****19K85A0335****G Rakesh Kiran
Zelf Studie 3.60 LPA****19K85A0339****Kalali Nikhil Goud
Zelf Studie 3.60 LPA****19K85A0341****Saikiran Kandunuri
Zelf Studie 3.60 LPA****19K85A0350****Avinash Merupula
Zelf Studie 3.60 LPA**

19K85A0357
Palabindela Sudharshan
Zelf Studie 3.60 LPA

18K81A0372
Bokka Sai Teja Reddy
Practically 3.50 LPA

18K81A0382
Gandham Sai Santosh
Practically 3.50 LPA

18K81A03A2
Pothineedi M L Ajay
Practically 3.50 LPA

19K85A0303
Raichetti Sai Krishna
Practically 3.50 LPA

19K85A0310
Swetha Cherikara
Practically 3.50 LPA

19K85A0320
Areti Jithendra Sai
Practically 3.50 LPA

18K81A0343
Sree Harshith
Qspiders 3.50 LPA

18K81A0351
Shaik Kaif Khundmeer
Qspiders 3.50 LPA

19K85A0305
Minigi Shiva Kumar
Qspiders 3.50 LPA

17K81A03C0
Yagni Saimanish
Wipro 3.50 LPA

18K81A0321
Prashanth Reddy Golkonda
Wipro 3.50 LPA

18K81A0343
Sree Harshith Naidu
Wipro 3.50 LPA

18K81A0357
Vengalat Abhilash Nair
Wipro 3.50 LPA

19K85A0315
Vishnu Vardhan Machi Reddy
Wipro 3.50 LPA

19K85A0319
Jaya Sai Teja Allanka
Wipro 3.50 LPA

19K85A0328
Jagadesh Chinthakindhi
Wipro 3.50 LPA

19K85A0356
Pabolu Akhil
Wipro 3.50 LPA

19K85A0362
Pullannagari Yogesh Reddy
Wipro 3.50 LPA

19K85A0332
Gargula Vamshi
Wipro 3.50 LPA

18K81A0388
Kotekulam Suresh Dhanush
Wipro 3.50 LPA

19K85A0340
K Lakshmi Sai Durga Prasad
Wipro 3.50 LPA

19K85A0341
Saikiran Kandunuri
Wipro 3.50 LPA

19K85A0371
Thota Uday Kumar
Wipro 3.50 LPA

19K85A0314
Karamkanti Ashwini
Wipro 3.50 LPA

19K85A0335
Rakesh Kiran Gorantala
Wipro 3.50 LPA

18K81A0383
Gangupamu Sai Sunil
Infosys 3.60 LPA

18K81A0304
Chandra Shekhar Reddy B
TCS 3.36 LPA

19K85A0315
Vishnu Vardhan Reddy M R
TCS 3.36 LPA

18K81A0301
Sankrith Roche
E solutions First 3.00 LPA

18K81A0374
Ch Satish Reddy
E solutions First 3.00 LPA

19K85A0339
Kalali Nikhil Goud
E solutions First 3.00 LPA

18K81A0326
Kailas Sai Nishta
Infolob 3.00 LPA

19K85A0313
Dara Praneeth
JUST DIAL 3.00 LPA

19K85A0330
Rajesh Emjala
JUST DIAL 3.00 LPA

18K81A0351
Shaik Kaif Khundmeer
Zelf Studie 3.60 LPA

19K85A0318
Veneeth Akula
JUST DIAL 3.00 LPA

18K81A0301
Sankrith Roche
JUST DIAL 3.00 LPA

18K81A0327
Kandukuri Srikar
JUST DIAL 3.00 LPA

18K81A0367
Bhairi Sai Reddy
JUST DIAL 3.00 LPA

19K85A0371
Thota Uday Kumar
JUST DIAL 3.00 LPA

19K85A0324
Bangaru Nitish Kumar
Altruist Technology 2.50 LPA

19K85A0313
Dara Praneeth
Altruist Technology 2.50 LPA

19K85A0304
Kola Satya Siva Kiran
Altruist Technology 2.50 LPA

19K85A0346
Macha Vineeth Reddy
Altruist Technology 2.50 LPA

19K85A0345
Madi Reddy Maneesh Reddy
Altruist Technology 2.50 LPA

19K85A0348
Manchiraju Vinay Sai Chandra
Altruist Technology 2.50 LPA

19K85A0358
Patha Shiva
Altruist Technology 2.50 LPA

19K85A0330
Rajesh Emjala
Altruist Technology 2.50 LPA

19K85A0326
Saikiran Budumuru
Altruist Technology 2.50 LPA

19K85A0369
Saiteja Sunkoju
Altruist Technology 2.50 LPA

18K81A0387
Korra Ajith
Infosys 3.60 LPA

19K85A0301
Shaik Muzafar
Altruist Technology 2.50 LPA

19K85A0366
Shaik Sameer
Altruist Technology 2.50 LPA

19K85A0370
Talakanti Yeshwanth Kumar Reddy
Altruist Technology 2.50 LPA

19K85A0374
Vemula Mayliya
Altruist Technology 2.50 LPA

19K85A0318
Veneeth Akula
Altruist Technology 2.50 LPA

18K81A0301
Sankrith Roche
Altruist Technology 2.50 LPA

18K81A0314
Devaraju Shirisha Sree
Altruist Technology 2.50 LPA

18K81A0328
Kankarla Bharath Kumar
Altruist Technology 2.50

18K81A0336
Mukka Karthik
Altruist Technology 2.50 LPA

18K81A0340
P N Abhishek Goud
Altruist Technology 2.50 LPA

18K81A0340
P N Abhishek Goud
Altruist Technology 2.50 LPA

18K81A0350
Sandila Sujeeth Goud
Altruist Technology 2.50 LPA

18K81A0398
Padamati Pavan Reddy
Altruist Technology 2.50 LPA

18K81A03C1
Farzan Ali
Altruist Technology 2.50 LPA

18K81A0334
Mamidi Lohitha
Altruist Technology 2.50 LPA

18K81A0341
Pappu Poojitha
Altruist Technology 2.50 LPA

18K81A0368
B.Sushmitha
Altruist Technology 2.50 LPA

18K81A0379
Donthu Adarsh
Altruist Technology 2.50 LPA

18K81A0396
Ningam Lokeshwarreddy
Altruist Technology 2.50 LPA

18K81A0388
Kotekulam Suresh Dhanush
Altruist Technology 2.50 LPA

18K81A0376
Chitturi Harish Chandra Prasad
Collaborate 1.80 LPA

Message from Placement Coordinator

Over two decades of existence as premier institution St Martins Engineering College has made a mark by providing the students job opportunity in prestigious and reputed firms. Thus ensuring a right beginning for their career.

Institution has made constant efforts by conducting Campus Recruitment Training (CRT) , AIML and E Box Classes which are exclusively designed for the students to get through the recruitment process of various IT and Non IT Companies. These classes will help the students with the following areas.

1. Aptitude (Quantitative Aptitude + Reasoning + Verbal)
2. Technical Skill Development
3. Mock Interviews

Our high quality education and efforts of the Training and Placement Office has helped our students to achieve big dreams.



P Vikram

Assistant Professor
Placement Coordinator

Companies Partnered



STUDENT CORNER

20



**Sudha
Rani**

20K85A0305

III year



Geethika

20K85A0312

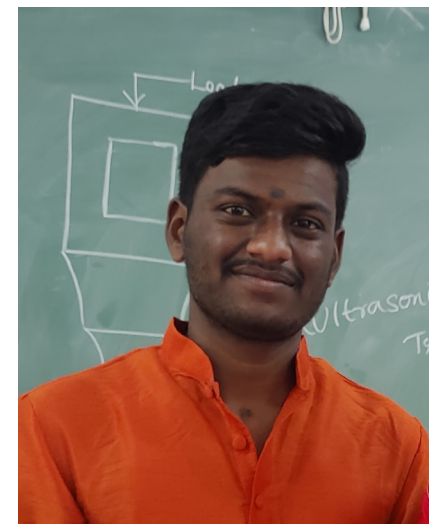
III year





Kishore

21K85A03B3
II year



Krishna Prasad

21K85A0383
II year



Art by.....
P Krishna Prasad

PRIZE WINNERS

22

TAM



Abdul

21K85A0399

II year

Youth Parliament First Prize

B Aryaman

21K81A0302

Group Discussion First Prize

II year



**Y Ashuthosh
A Rahul
S E Prince Joseph**

19K81A0303

19K81A0338

19K81A0340

III year

General Quiz First Prize



Prakash

19K85A0355
Miniature Artist
IV year



Prakash is a Prolific Miniature artist who specialising handcrafting magnificent designs on pencils. His designs ranges from abstract shapes to monumental architecture.



TALENT SHOWCASE

24

A Suman

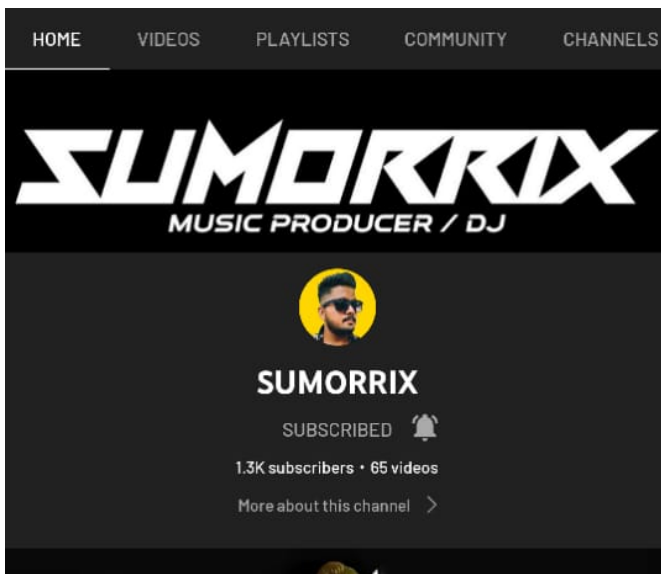
21K85A0318

II year

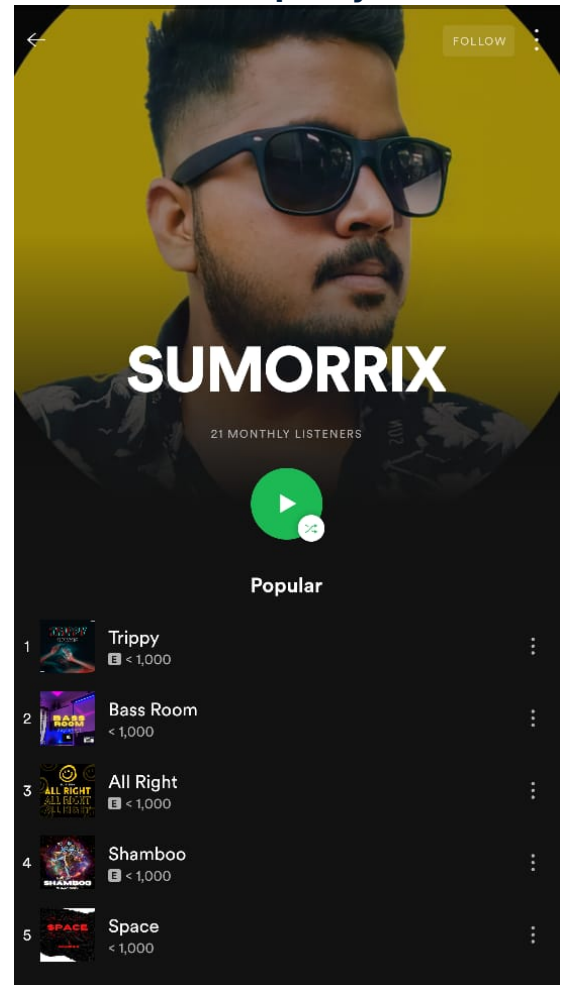
Music Producer & Youtuber

Talented Music Produced and Composer who has composed and published several songs in Youtube and is verified on spotify.

Youtube Channel SUMORRIX



Spotify SUMORRIX



Delivering Lecture in TAM Workshop



S E Prince Joseph

19K81A0340

III year

CEO & Speaker

Prince runs Sindala Trading and Consultancy Private limited which develops Enterprise grade software solutions and in his free time he loves teaching programming

" May the joy that you have spread in the past come back to you on this day. Wishing you a very happy birthday."

Student Birthdays

A Chanakya 3 A - June 25

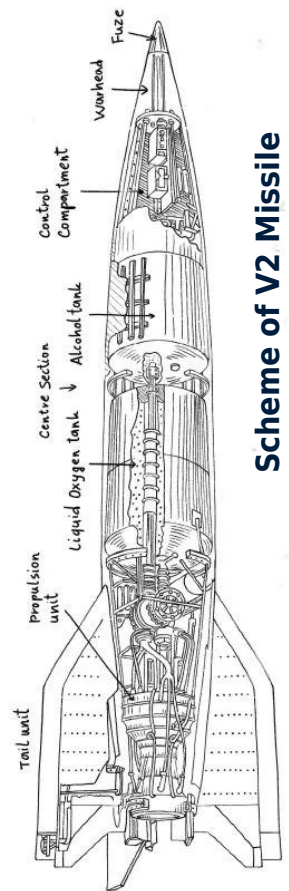
G Varun Kumar 3 B - June 10

D Akhil Kumar 3 B - June 29

"On your birthday may your spirit be enriched in light, love, and hope for a prosperous year ahead."

Sections

Journals
Conferences
Patents
Books



Scheme of V2 Missile

Journals

Combustion Analysis Of HCCI Engine At Different Operating Conditions (Aug 2021)

Dr. D.V Sreekanth and Y.Chandrasekhar yadav
Journal Of Engg. Research Online First Article,
Doi :0.36909/Jer.10323.

The Result Analysis Of Low Temperature Refrigeration System With & Without PCM (Oct 2021)

R. Hanuma Naik, T. Paramesh and S. Amith Kumar
Dogo Rangsang Research Journal,
Vol.08, issue 14, pp.321-328, ISSN:2347-7180.

Computational Fluid Dynamic Analysis Of Convergent Divergent Nozzle Krishna (Oct 2021)

K. Sunitha and P. Rajamani
Dogo Rangsang Research Journal,
vol.8,issue14, pp.387-392, ISSN:2347-7180.

A Model Of Pneumatic Hand Brake System (Oct 2021)

Mukunda Dabair
Dogo Rangsang Research Journal, vol.08,
issue 14, pp.384-386, ISSN:2347-7180.

Design And Analysis Of Rotary Draw Tube Bending (Oct 2021)

P. Vikram
Dogo Rangsang Research Journal, vol.08,
issue 14,pp.393-396, ISSN:2347-7180.

Optimization Of Machining: Parameters On Temperature Rise In Cnc Turning Process Of Aluminium 6061 Using RSM And Genetic Algorithm (Nov 2021)

A.Kriyadeesh, V.Sripal, Dileep Panchal and M. Bhaskar
Journal Of Education: Rabindrabharati University, vol.13, issue 1,pp.231-238, ISSN:0972-7175.

Model-Based Control System For Air Path And Premixed Combustion Of Diesel Engine Journal Of Education:Rabindrabharati University(Nov 2021)

Dr. Ravi Naik,T. Paramesh and R. Suvarna Babu
vol.13, issue1, ISSN: 0972-7175.

Model Diesel Based InjectionProfile Optimization To Reduce Transient Soot Profile (Nov 2021)

Y. C Sekhar Yadav, L. Sunil and S. Pavan Kalyan
Journal Of Education: Rabindrabharat University,
vol.13, issue 1, ISSN:0972-7175.

Effect Of Different Quenching Media On Mechanical Properties Of Aisi 1018 Low Carbon Steel(Nov 2021)

Nasika Tulasi Ram,T. Paramesh and Venkat Harish S
Journal Of Education: Rabindrabharati University,
vol.13, issue 1,pp.215-218, ISSN:0972-7175.

A Diesel Blend Properties Comparison Of Plastic Oil And Butanol (Nov-2021)

R. Hanuma Naik, Shahane Amith Kumar and P. Uday Kumar
Journal Of The Maharaja Sayajirao University Of Baroda,
vol.52, issue 6, pp.321-327, ISSN:0025-0422.

A Glance At Future Prospects Of 4d Digital Printing And Its Imminent (Dec 2021)

T.Paramesh, R. Hanuma Naik and R. Suvarna Babu
Juni Khyat, issue 1, pp.981-987, ISSN:2278-4632.

Design And Development Of Self Power Regenerative Electric-Bike (Dec-2021)

K. Archana, Jayasree Bethapudi and K. Hemalatha
vol.11, issue 1, pp.910-922, ISSN:2278-4632

Design And Analysis Of Flywheel In A Multi Cylinder Petrol Engine(Dec-2021)

Ponnam Uday Kumar
Juni Khyat, vol.11, issue1, pp.993-1002, ISSN:2278-4632.

Characterization Of Al2618 Reinforced With Frit MMC (Dec 2021)

Vijayagiri Sripal
Juni Khyat, vol.11, issue 1, pp.1003-1010, ISSN:2278-4632.

The Effect Of Catem (Jan 2022)

Dr. D.V Sreekanth and Y.Chandrasekhar Yadav
Compliance Engineering Journal, vol.13, issue 1, pp.161-170,
ISSN:0898-3577.

Damage Detection Method For Wind Turbine Blades Based On Vibration Signals (Jan 2022)

Dr.Challa Jayaramulu
JETIR, vol. issue 1, pp.318-325, ISSN:2349-5162.

Taguchi Optimization Of Minimum Quantity Lubrication On Turning Of Aisi-1040 Steel Using Ferrite Nanolubricants(Jan 2022)

Dr.Lavanya Madugula
Compliance Engineering Journal, vol.13, issue 1, pp.147-156,
ISSN:0898-3577

Design Of Foot Over Bridge With The Variation Of Stiffness To Weight Ratio With The Help Of Topology Optimization Compliance Engineering Journal,(Jan 2022)

K. Hemalatha
vol.13, issue 1, pp.171-182, ISSN:0898-3577.

Finite Element Analysis Of The Classic Bicycle Frame (Jan 2022)

Dileep Panchal and L. Sunil
Compliance Engineering, Journal,vol.13,issue1, pp.151-156,
ISSN:0898-3577.

Investigation To Optimise The Input Parameters With Carbide Inserts And Hss Tool On Cnc Turning To Minimise The Surface Roughness On En19 Steel (Jan-2022)

A. Kriyadeesh
Compliance Engineering Journal, vol.13, issue1, pp.71-76,
ISSN:0898-3577.

Heat Transfer Enhancement Rate Of A Pipe Using Different Types Of Inserts (Jan 2022)

Ranjith Aavula and M. Bhaskar
Compliance Engineering Journal,vol.1, issue1,pp.271-278
ISSN:0898-3577.

Design And Analysis Of A Heavy Vehicle Chassis for Composite Materials For Maximum Load Conditions
Compliance Engineering Journal (Jan 2022)

M. Bhaskar
vol.13, issue 1, pp.61-70, ISSN:0898- 3577.

Stress And Vibration Analyses Of The Wind Turbine Blade (A Nrel 5mw) JMERC (Jan 2022)

Balaji D Tandle,Lamani Sunil and Y.C Sekhar Yadav
vol.41, issue 3, ISSN:1024-1752.

Design And Development Of A Low-Cost 3D Metal Printer
JMERC,(Jan 2022)

Dr. M. Lavanya, K. Sunitha and K. Archana
vol.41 issue 3,pp.47-54, ISSN:1024-1752.

Conferences

A Review On Research Trends In Abrasive Water Jet Machining- A State Of Art Approach (July- 2021)

Dr. Dv. Sreekanth, Dr. B Sreenivasulu and L. Sunil
ICRIM- 2021, ISBN:978-81-952678-0-4

Multi Objective Optimization Model Of Cnc Turning For Minimising Processing Time And Carbon Emission With Real Machining Application (July 2021)

A. Kriyadeesh, B. Jaya Sree and P. Vikram
ICRIM- 2021, ISBN:978-81-952678-0-4

Design And Development Of A Multifunctional Portable Machine ICRIM- 2021 (July 2021)

Dileep Panchal, K. Sunitha and P. Rajamani
ISBN:978-81-952678-0-4

An Effective Framework For Brain Tumour Detection Using A Machine Learning Technique(July 2021)

Dr. M. Lavanya ,K. Archana and S. Vijaya Nirmala
ICRIM- 2021, ISBN:978-81-952678-0-4

Optimization Of CNC Turning Parameters In Machining En19 Using Face Centred Central Composite Design Based RSM (July 2021)

Dr. Dv Sreekanth, Dr. Ravi Naik Banoth and Y. C Sekhar Yadav
ICRIM- 2021, ISBN:978-81-952678-0-4

A Hole Assessment Of Expansion Ratio For Hot Rolled Microalloyed Steels(July 2021)

K. Hemalatha, S. Pavan Kalyan and A. Ranjith
ICRIM- 2021, ISBN:978-81-952678-0-4

Design & Development Of Universal Pneumatic Drilling Machine: A Review Study(July 2021)

R. Hanuma Naik, Dr. Ch. Jayaramulu and Mukunda Dabair
ICRIM- 2021, ISBN:978-81-952678-0-4

Design And Development Of Hydraulic Power Hammer (July 2021)

R. Suvarna Babu ,K. Archana, Dr. B. Sreenivasulu and Mukunda Dabair
ICRIM- 2021, ISBN:978-81-952678-0-4

Optimization Of Machining Parameters On Temperature Rise In Cnc Turning Process Of Aluminium 6061 Using RSM And Genetic Algorithm (July 2021)

T. Paramesh, V. Sripal and R. Suvarna Babu
ICRIM- 2021, ISBN:978-81-952678-0-4

Patents

Investigational Study On Workability Of Self Compaction Concrete (June 2021)

Dr. D. V. Sreekanth
202141024109 A FOA:31/05/2021 DP:25/06/2021

A Study On Bacterial Concrete And Its Physical Properties (Sep 2021)

Dr. D. V. Sreekanth
202141040220 A FOA:6/9/2021 DP:24/09/2021

Design and development of wireless artificial arm (March 2022)

Dr. D. V. Sreekanth
202241012423 A FOA:08/03/2022 DP:18/03/2022

Books

Metallurgy And Material Science

Dr. D.V. Sreekanth, Dr. B. Ravi Naik and Mr. R. Hanuma Naik
Sri Krishna Techno Books, Edition 1, ISBN:978-81-953919-3-6 2021

Mechanics Of Solids

Dr. D.V. Sreekanth, Mr. T. Paramesh and Mrs. K. Hemalatha
Sun Raise International Publications, Edition1, ISBN:978-93-92311-06-2 2021

Thermodynamics Students Helpline Publishing House

Dr. D.V. Sreekanth, Mr. Y. Chandrasekhar Yadav and Mr. P. Uday Kumar
Edition 1, ISBN:978-81-953917-5-2 2021

Kinematics of Machinery Sun Techno Publications

Dr. D.V. Sreekanth, Mr. Mukunda Dabair and Mr. V. Sripal
Edition 1, ISBN: 978-81-953688-0-8 2022

TECHNICAL EVENTS

32

Technovation 2021

National Level Project Expo & Competition
Date: 24-8-2021
Venue: Mechanical Block
No of Participants: 91

Technovation 2022

National Level Project Expo & Competition
Date: April 29 2022
Venue: Mechanical Block
No of Participants: 180



Autodesk Fusion 360

Date: June 16 2022
Venue: Auditorium

Datascience and AIML for Mechanical Engineers

Date: May 30 2022

ICRIM 2021 Online International conference on ROBOTICS AND INTELLIGENT MANUFACTURING

Date: June 16&17 2022
No of Participants: 115

HAL Hindustan Aeronautics Limited

We visited HAL at Balanagar Hindustan Aeronautics Limited has blossomed into a major player in the global aviation arena, and today is among the elite Navratna companies. It is an Indian state-owned aerospace and defence company. Which is one of the oldest and largest aerospace and defence manufacturers in the world today. We gained knowledge on working of radars, navigation, and identification systems of aircrafts and helicopters. They shown working models of solar power systems.



Date:15-12-2021
No of Participants:220



27-30 Nov 2021
450 participants

Diesel Loco Shed-Moula-Ali

We visited Diesel Locomotive Workshop at Moula-Ali, it is an industrial-technical setup, where repair and maintenance work of diesel locomotives is carried out. It increases the operational life of diesel locomotives. We gained knowledge about Locomotive engine and all locomotive parts and simulation procedure of Loco pilot.

BDL Bharat Dynamics Limited

BDL is one of India's manufacturers of ammunitions and missile systems. BDL was established to be a manufacturing base for guided weapon systems and begun with a pool of engineers drawn from indian ordnance factories, DRDO and aerospace industries

Date:17-12-2021

No of participants:230



INDUSTRIAL VISITS





Fresher's Day

Fresher's Day is a welcoming party for newcomers, a gesture of extending a friendly atmosphere and to be a motivating factor for juniors.

Date: Feb 11 2022



Mechanical Department on Traditional



Traditional Day

Date: March 26 2022

Venue: Mechanical Block

Traditional Day is observed as a celebration of India's diverse culture and usually is a relaxed day.

It is a day designated for students and teachers to come in traditional attire of Jammu Kashmir.





Street Cause

The motto of street cause is "A life without a Cause is a life without effect"

Street Cause is a Non-Government Organization (NGO) which has been started by a group of students. The aim of this organization is to give a new lease of life to street children, elderly people and incapacitated beggars by admitting them into orphanages and old age homes and also by teaching those means to earn their living.



Pavan Kasula

19K85A0342

President



A Chanakya

19K81A0301

Vice President

TAM**Chanakya K**

19K81A0320

VFX Department

TAM stands for technology awareness month, where we conduct events on generating awareness amongst students about the latest practical technologies in the industry of engineering. We focus on bringing light to the topics that are usually hind-sighted by the students of engineering. Creating a better knowledge-base and testing their wits on various levels, TAM stands to be a knowledge-parting legacy from years! Come and join us to be a part of the biggest intelligence-rave of St. Martin's Engineering College.

Helping Hands

Helping hands which was started by the students of St.Martins engineering college in March 2020 in response to the covid-19 pandemic. United by a shared purpose: to provide essential amenities to the underprivileged . The helping hands organisation has provided food and shelter to over 800 people till date.



SAE India



SAEINDIA is India's leading resource for mobility technology. SAEINDIA is a strategic alliance partner of SAE International registered in India as an Indian nonprofit engineering and scientific society dedicated to the advancement of the mobility industry in India.

IWS



Indian Welding Society is a Professional Body devoted to welding in India. IWS is governed by a National Governing Council. The members of NGC are elected through postal ballot system. The President is nominated by the outgoing Council and will retire after a term of two years.

Trends in Friction Welding

Friction stir welding (FSW) is a solid-state joining process that uses a non-consumable tool to join two facing workpieces without melting the workpiece material. Heat is generated by friction between the rotating tool and the workpiece material, which leads to a softened region near the FSW tool. While the tool is traversed along the joint line, it mechanically intermixes the two pieces of metal, and forges the hot and softened metal by the mechanical pressure, which is applied by the tool, much like joining clay, or dough. It is primarily used on wrought or extruded aluminium and particularly for structures which need very high weld strength.

FSW is capable of joining aluminium alloys, copper alloys, titanium alloys, mild steel, stainless steel and magnesium alloys. In this type, welding occurs due to external pressure applied into the solid state. In friction welding process, both the plates or work piece to be joint are in either rotating or moving relative to one another. This relative movement produces friction which displaces material plastically on contact surface. A high pressure forced applied till completed the weld. This welding is used to joint steel bars, tubes up to 100 mm diameter.

Types:

1. Continuous induce friction welding

This welding is same as we discussed above. In this welding process, the rotor is connected with a band brake. When the friction crosses the limit of plastic temperature, the band brake comes into action which stops the rotor but the pressure applied on the work piece increasingly until the weld is formed.

2. Inertia friction welding

In this type of friction welding the band brake is replaced by the engine flywheel and shaft flywheel. These flywheels connect chuck to the motor. In the starting of the welding, both flywheels are connected with one another. When the speed or friction reaches its limit, the engine flywheel separated from the shaft flywheel. Shaft flywheel has low moment of inertia which stops without brake. The pressure force is continuously applied to the work piece until the weld is formed.

- Ch. Pranay

III year Mechanical

EDITORIAL BOARD

42

Note from News Letter Committee

On the seventh sky! Yes this was the feeling which we felt when we got the opportunity to contribute towards the maiden edition of the Mechanical department news letter. While compiling the news letter, care was taken that this news letter should become the mouthpiece of departmental achievements since the past quarter year. Nothing is perfect in this world, this is our sole belief, this committee will strive hard to achieve perfection but there can be scope of improvement in any section of this news letter. We openly welcome suggestions and feedback from students as well as faculty members.
Thank you.



Mr. T Paramesh
Coordinator



Mr. Mukunda Dabair
Editorial Board



Mrs. K Sunitha
Advisory Board



Ms. B Jayasree
Editorial Board

STUDENT COMMITTEE

43



K Chanakya 19K81A0340
Designer



20K85A0399 Abdul
Editor



B Aryaman 20K81A0302
Designer



20K81A0331 Aman Kashyap
Editor



S E Prince Joseph 19K81A0340
Designer



20K85A0310 Ch Pranay
Editor