V.S.B. ENGINEERING COLLEGE

NH 67, COVAI ROAD, KARUDAYAMPALAYAM POST, KARUR-639001.
(AN NBA ACCREDITED AND ISO 9001:2015 CERTIFIED INSTITUTION)
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF

MECHANICAL ENGINEERING

DECEMBER 2022-2023
NEWS LETTER

INTRODUCTION

V.S.B. Educational Trust was founded in the year 2000 by Mr. V.S. Balsamy, the founder and correspondent of the V.S.B. Engineering College, with an interest in promoting, managing and administrating educational institutions with high academic standards, discipline and to take up and help other allied activities in the field of education. Under the Trust, V.S.B. Engineering College, Karur was established in the year 2002 and V.S.B College of Engineering Technical Campus, Coimbatore in the year 2012.

CHAIRMAN'S MESSAGE

Shri. V.S. Balsamy
Founder's Message

Mr.V.S.Balsamy, B.Sc., L.L.B., a leading luminary, has 31 years of bright tanding in the field of law. He is the recipient of "Indira Gandhi Sadhbavana Award" from Global Economic Council,New Delhi. He was also honored with "The Best Humanitarian Award" in 2005.VSB Educational Trust was founded by him as the Founder- Trustee in the year 2000. He started V.S.B. Engineering College in Karur in the year 2002 and V.S.B. College of Engineering-Technical Campus in Coimbatore in the year of 2012. He, the Correspondent of VSB Group of Institutions, lays emphasis on 'Hard Work'. As he strongly believes that "HARD WORK IS THE KEY TO SUCCESS", it is conceived as the motto of the Institutions. Shri. V.S.Balsamy Founder.

ABOUT OUR DEPARTMENT

Welcome to the Department of Mechanical Engineering at V.S.B. Engineering College, Karur. It occupies a prominent place in the records of the college due to its good academic history. It offers a 4-year B.E. Mechanical Engineering course, the most sought-after one among all the courses since the Institution was founded in 2002. All our constituents are continually evaluating and improving departmental activities to fulfill our mission of excellence in engineering education. In 2002, the department was started with 60 students; later, the intake was increased to 120 and 180 subsequently because of the continuous good academic efforts and care taken by the department. In the years that followed, the department continued its success in education, placement, and research. These activities centered around and continued to include the traditional areas of Mechanical Engineering, namely Basics of Engineering, Fluid Mechanics, Thermodynamics, Manufacturing Technology, Heat, and Mass Transfer, Strength of Materials, Kinematics and Dynamics, Internal Combustion Engines and Robotics.

HOD MESSAGE

As the Head of the Department, I want to ensure you that our team will do our best to get students involved. This magazine will show not just technical articles but also the creative and smart ideas of students. It's a good way for both students and teachers to share useful information and stay updated. I really think it can be a great way for the world to see what Mechanical Engineering students are capable of. I hope this keeps going, and the magazine brings out everyone's talents. I appreciate and acknowledge the hard work of the editors and the magazine committee in making the magazine. I wish them success in their efforts.

VISION

To produce quality Human Resources in Mechanical Engineering though excellence in Teaching and innovative projects and thus to serve the society.

MISSION

- To impart quality education through the State-of-the-art facilities.
- To motivate the students to pursue Higher education.
- To promote research activities by encouraging the faculty and students to carry out projects.
- To encourage the students to acquire entrepreneurial skills for the betterment of the Society.

PROGRAM SPECIFIC OUTCOMES

- Identify societal problems related to mechanical engineering, solve them by applying the mechanical and allied engineering knowledge and tools, for the benefits of the society.
- Apply the knowledge of Mechanics, Thermal science and Manufacturing to meet the needs of the industry and society.
- Enable the students to design, analyze and evaluate the Mechanical engineering components through innovative projects.

PROGRAM EDUCATIONAL OBJECTIVES

- Have a successful career in Mechanical Engineering and allied industries.
- Have expertise in the areas of Design, Thermal, Materials and Manufacturing.
- Contribute towards technological development through academic research and industrial practices.
- PEPractice their profession with good communication, leadership, ethics and social responsibility.
- Graduates will adapt to evolving technologies through life-long learning

PROGRAM OUTCOMES

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

2. 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.

3. 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.

4. 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.

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

6. 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.

7. 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.

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

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

10. 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.

11. 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.

12. 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.

RESULT ANALYSIS

ANNA UNIVERSITY RANK (2018-2022) BATCH

SL.No	Register Number	Name	CGPA	Rank
1	922518114014	ATHIBAN. T	9.16	12

Result Analysis of End Semester Examinations
(June -2023_EVEN sem) - (After Revaluation)

YEAR / CLASS	APPEARED	TOTAL APPEARED	PASSED	TOTAL PASSED	PASS %	Year wise Overall %
I Mech	71	71	31	31	43.66	**43.66%**
II Mech A	62	62	44	44	70.97	**70.97%**
III Mech A	45	87	38	68	84.44	**78.16%**
III Mech B	42		30		71.43	
IV Mech A	57	110	56	109	98.25	**99.09%**
IV Mech B	53		53		100.00	
Overall Pass %	**330**		**252**		**76.36%**	

Result Analysis of Anna University Examinations
(Jan -2023_ODD sem) - (I year-After Revaluation) (II,III and IV year after challenge Revaluation)

YEAR / CLASS	APPEARED	TOTAL APPEARED	PASSED	TOTAL PASSED	PASS %	Year wise Overall %
I Mech	72	72	39	39	54.17	**54.17%**
II Mech	62	62	33	33	53.23	**53.23%**
III Mech A	45	87	38	73	84.44	**83.91%**
III Mech B	42		35		83.33	
IV Mech A	57	110	35	69	61.40	**62.73%**
IV Mech B	53		34		64.15	
Overall Pass %	**331**		**214**		**64.65%**	

STAFF'S JOURNAL PUBLICATION

S.No	Name of the faculty	Title of the paper	Journal name
1	Dr.M.Natesh	Effect of Silicon Segregation in the Argon Arc Welded In coloy 20 Super alloy	Silicon
2	Dr.K.R.Thangadurai	Influence of Process Parameters on Form Factor Analysis During Micro Hole of AA 8011	Periodico Di Mineralogia
3	Dr.P.Venkumar	Decision Making Problems Related to Modular Design Practices or Techniques	Mathematical Problems in Engineering
4	Dr.P.Venkumar	IOT Based Anomaly Detection and Maintenance Management of an Industrial Rotary System	Current Applied Science and Technology
5	Dr.P.Venkumar	Availability Analysis of the Critical Production System in SMEs Using the Markov Decision Model	Mathematical Problems in Engineering
6	Dr.D.Amrishraj	Tribological Behavior of Carbon Nanotubes Reinforced Acrylonitrile Butadiene Styrene Composites at Elevated Temperature	Trans Indian Inst Met
7	A.Captan Prabakaran	Effect of post-processing technique on the mechanical, tribological behavior and surface characteristics of 3d-printed acrylonitrile styrene acrylate parts	Surface Review and Letters
8	Dr.M.Natesh	Influence of microstructure on the oxidation characteristics of conventional and wire arc additive manufactured alloy 625 at 750°C	Materials Letters
9	A.Captan Prabakaran	Experimental and numerical investigations on the fatigue characteristics of FFF printed acrylonitrile styrene acrylate parts	progress in additive manufacturing
10	T.S. Kirubasankar	Mechanical and morphological behaviour of holoptelea integrifolia fibre reinforced with sic particulates hybrid polymer epoxy composites	Journal of Environmental Protection and Ecology

PATENT PUBLICATION

TITLE OF THE PATENT 1

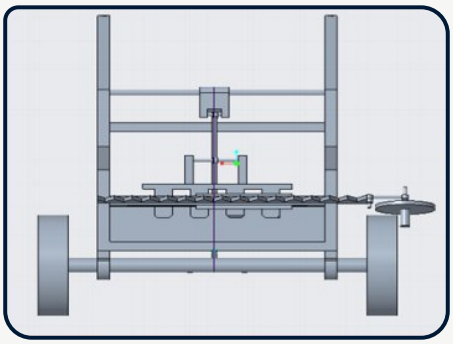
GRASS CUTTING CHOPPING MACHINE

NAME OF THE STAFF APPLICANT

- Dr. D. Amrishraj
- Dr. K.R. Thangadurai
- Dr. P. Raju
- Dr. V. Nirmal Kannan
- Mr. T.S. Kirubasankar

NAME OF THE STUDNENT APPLICANT

- Deepak.P
- Kabilsivan.K
- KanishKumar.S
- Naveen.N
- Rahul.S.S
- Balachandhiran.S
- Kavin.c
- Haripraveen
- Logeshwaran.C
- Tamilvanan.A



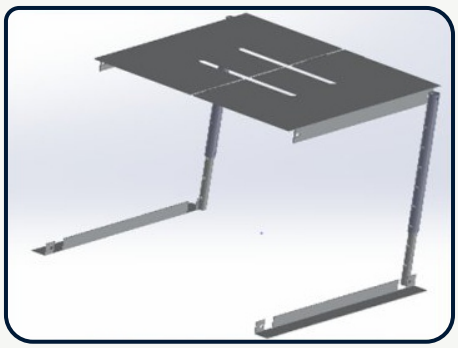
GRASS CUTTING CHOPPING MACHINE

TITLE OF THE PATENT 2

PORTABLE AND FLEXIBLE TABLE

NAME OF THE STAFF APPLICANT

- Dr. P. Raju
- Dr. K.R. Thangadurai
- Dr. D. Amrishraj
- Dr. M. Natesh
- Mr. S. Vinoth Kumar



PORTABLE AND FLEXIBLE TABLE

NAME OF THE STUDNENT APPLICANT

- Gokul.A.K
- Nagaraj.E
- Nandhakumar.S.D
- Marimuthu.B
- NaveenKumar.P
- Kavin.P
- Manoharan.M
- BharaniKumar.P
- ChandraSekar.S
- BenjaminPaulSelvin.W

TITLE OF THE PATENT 3

SMART WALKING AID

NAME OF THE STAFF APPLICANT

- Dr. K.R. Thangadurai
- Dr. D. Amrishraj
- Dr. P. Raju
- Dr. V. Nirmal Kannan
- Dr. M. Natesh

SMART WALKING AID

NAME OF THE STUDNENT APPLICANT

- Balasubramanian.S
- Sethupathi Raja.T
- Yuvaraj.P
- Arun.J
- Subrahmaniyam Sami.P
- Sasidharan.A
- Senthilnathan.S
- Senthilnathan.M
- Harish.A
- Sasikumar.N

ONLINE COURSES BY STUDENTS

S.No.	Student Name	Title of The Course	Duration
1	Vigneshwaran	material scicence in coursera	4 weeks
2	Sudharasan	material scicence in coursera	4 weeks
3	Sasikumar	material scicence in coursera	4 weeks
4	Sasidharan	material scicence in coursera	4 weeks
5	Saran.s	Autodesk CAD/CAM/CAE for Mechanical Engineering Specialization in coursera	4 weeks
6	Gokul.A.K	Machine learning in coursera	4 weeks
7	Kavin.P	Machine Learning in coursera	4 weeks
8	Jayasurya	material science in coursera	4 weeks
9	Kishore.D	Python for everybody in coursera	4 weeks
10	chandrasekar	Machine Learning in coursera	4 weeks
11	Harikrishana	material scicence in coursera	4 weeks
12	Kavin .C	Machine Learning in coursera	4 weeks
13	ARUTSELVAM T	Computer Programming in coursera	4 weeks
14	Balamurali krishna.N	C for everyone in coursera	4 weeks
15	W.Benjamin Paul selvin	C for everyone in coursera	4 weeks
16	Kanish kumar	machine learning in coursera	4 weeks
17	Janakiraman	manufacturing for product design in coursera	4 weeks
18	Nithish kannan	Java in coursera	4 weeks
19	MATHI ARASU S	CAM & Digital Manufacturing	4 weeks
20	MuthuPandi	c,c++ In Autodesk	4 weeks
21	MARIMUTHU B	c,c++ In Autodesk	4 weeks
22	HARIPRAVEENKUMAR S	c,c++ In Autodesk	4 weeks
23	BHARANIKUMAR P.K.	Python for everybody in coursera	4 weeks

24	HARISH A	c,c++ In Autodesk	4 weeks
25	BALACHANDHIRAN S	Machine Learning in coursera	4 weeks
26	NANDHAKUMAR S.D	JAVA IN CADD	62 hours
27	LOGANATHAN M	c,c++ In Autodesk	4 weeks
28	NAGARAJ E	JAVA IN CADD	62 hours
29	Manoharan	Machine Learning in coursera in coursera	4 weeks
30	Nawfal Jassim	Java in coursera	4 weeks
31	Rahul S.S	Advance in joining and welding technology in	8 weeks
32	Naveen.n	Advance in joining and welding technology in	8 weeks
33	Naveen kumar.P	Advance in joining and welding technology in	8 weeks
34	Deepak.P	Advance in joining and welding technology in	8 weeks
35	Dhiyanesh	3D CAD fundamental in Coursera	7weeks
36	Sethupathiraja	Advance in joining and welding technology in	8 weeks
37	Dhatchina moorthy S	Autodesk CAD/CAM/CAE for Mechanical Engineering Specialization in coursera	4 weeks
38	DeepanKumar	Python In CSE	60 hours
39	Jegatheeshwaran	Creo in CADD	40hours
40	Aadhiseshan S.R	Autodesk CAD/CAM/CAE for Mechanical Engineering Specialization in coursera	4 weeks

II Year Students List

S.No.	Name of student	Coursera Course Title
1	AADHITHYAN G	3D CAD FUNDAMENTAL
2	AKASH DHANUSH N	3D CAD APPLICATION
3	ANAND K	3D CAD APPLICATION
4	ANBARSU	3D CAD APPLICATION
5	ARUN KUMAR D	PYTHON FOR EVERYBODY
6	ARUN KUMAR T	PYTHON FOR EVERYBODY
7	ASHWIN KARTHIKEYAN R	PYTHON FOR EVERYBODY
8	BOOBHARATHI KANNAN S	JAVA SCRIPT
9	DANI I	JAVA SCRIPT
10	DEVARAJ M	PYTHON FOR EVERYBODY
11	GANESH B	PYTHON FOR EVERYBODY

12	GOBI N	PYTHON FOR EVERYBODY
13	GOKULAKRISHNAN A	PYTHON FOR EVERYBODY
14	GOBINATH S	PYTHON FOR EVERYBODY
15	HARIDOSS I	PYTHON FOR EVERYBODY
16	HARIHARAN S	3D CAD FUNDAMENTAL
17	HARI PRASATH S	3D MODELLING
18	HARISH T	MACHINE LEARNING
19	JAMES A	AI FOR SCIENCE
20	KALEESHWARA KUMAR A	MACHINE LEARNING
21	KANNAN P	MACHINE LEARNING
22	KARTHI R	MACHINE LEARNING
23	KARTHIKEYAN M	3D CAD FUNDAMENTAL
24	KARTHIKEYAN R	PYTHON FOR AI DEVELOPMENT
25	KAVIPUTHALVAN K	DATA ANALYSIS
26	KAVIYARASU S	PYTHON FOR DATA SCIENCE, AI & DEVELOPMENT
27	KIRAN S	PYTHON FOR DATA SCIENCE, AI & DEVELOPMENT
28	KISHORE J	PYTHON FOR DATA SCIENCE, AI & DEVELOPMENT

STUDENT INTERNSHIP & IN PLANT TRAINING

Sl. No.	Name of the participant	Name of the partnering institution/ industry /research lab with contact details	Periods	Duration
20				
1	C.Logeswaran	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
2	M. Boopathi	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
3	P.Subramaniyam swami	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
4	A.Sasidharan	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
5	P.Vignesh	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
6	J.Arun	Swamy Auto Carriage	23.07.22 to 23.08.22	4 Weeks
7	Nawfal Jassim	Krishnaa Bajaj	23.07.22 to 23.08.22	4 Weeks
8	D. Nallasamy	Sri Hariram motors	01.08.22 to 30.08.22	4 Weeks
9	J.Naveen	Sri Hariram motors	01.08.22 to 30.08.22	4 Weeks
10	P.PuvanRaj	Sri Hariram motors	01.08.22 to 30.08.22	4 Weeks
11	J.Kishore	Sri Hariram motors	01.08.22 to 30.08.22	4 Weeks
12	R.Rajalingam	Phoenix Motor	01.08.22 to 31.08.22	4 Weeks
13	S.Hariharan	TVS,Petavathalai	01.08.22 to 30.08.22	4 Weeks
14	M.Naveen	Delphi TVS	01.08.22 to 31.08.22	4 Weeks

OTHER COLLEGE PARTICIPATION

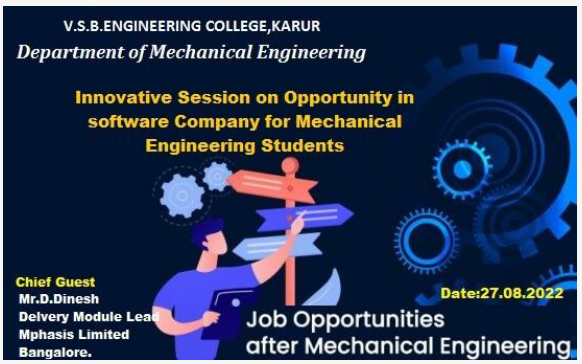
Sl. No.	Name of the participant	Name of the Company/Organization	Periods	Duration
1	S. Kanishkumar	Chakra Motors company	18.07.22 to 29.07.22	2 Weeks
2	M.Venkatesan	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
3	S.Kiran	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
4	P.Premkumar	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
5	R.Ravikumar	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
6	R.Karthi	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
7	T.Arunkumar	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks
8	V.Vishva	MOD Forge,Chennai	01.08.22 to 14.08.22	2 Weeks
9	S.Nandhakumar	Salem Steel Plant	12.08.22 to 18.08.22	2 Weeks
10	R.Karthikeyan	TVS,Dharapuram	01.08.22 to 15.08.22	2 Weeks
11	V.Periyasamy	Chakra Motors Company,Karur	27.07.22 to 16.08.22	3 Weeks
12	S.Kaviyarasu	Chakra Motors Company,Karur	27.07.22 to 16.08.22	3 Weeks
13	S.Manoj	Chakra Motors Company,Karur	27.07.22 to 16.08.22	3 Weeks
14	S.Naveen	Honda,Kangeyam	08.08.22 to 24.08.22	2 Weeks
15	K.Mohamed Kamalsha	Honda,Kangeyam	08.08.22 to 24.08.22	2 Weeks
16	C.Anbarasu	Honda, Oddanchatram.	01.08.22 to 15.08.22	2 Weeks
17	M.Devaraj	TNPL,Karur.	03.09.22 to 09.09.22	1 Weeks
18	K.Anand	TNPL,Karur.	03.09.22 to 09.09.22	1 Weeks
19	M.Mokesh	SPACE,kodacy	22.07.22 to 07.08.22	2 Weeks

2022-2023 EVENT DETAILS

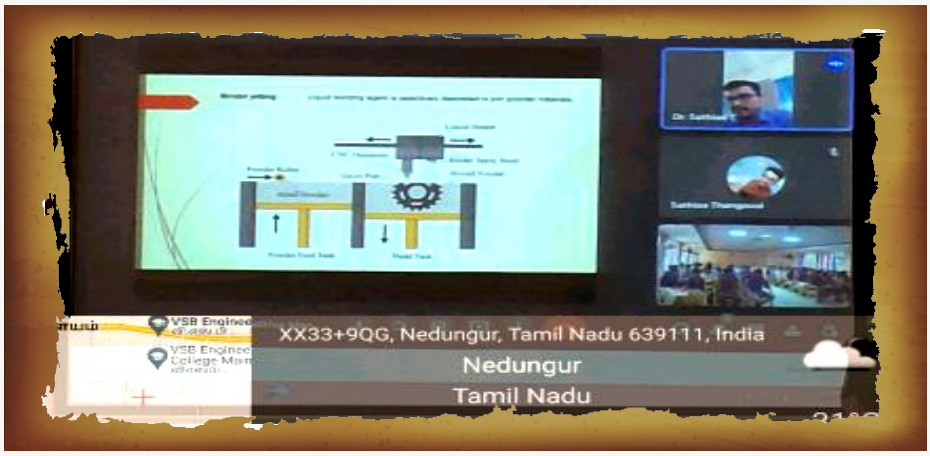
INNOVATION EVENT		
DATE	**EVENT NAME**	**RESOURCE PERSON**
27.8.22	Opportunity in software Company for Mechanical Engineering Students	Mr. D.Dinesh Delivery Module Lead, Mphasis Limited, Bengaluru.
10.9.22	Innovative session on Advances in Additive Manufacturing	Dr.T.Sathies Central Research Facility, National Institute of Technology, Karnataka
21.12.22	Innovative session On industrial 4.0	Mr. Praveen Kumar.V &Mr. Mohammed Riswan.M Head Operation CADD Centre Karur & Product Specialist -ITA
21.3.23	Innovation in scope of machine learning in mechanical domain	Mr.S.Mahendran Junior Research Engineer, BUDD.AI
12.04.23	Software testing life cycle	Mr.H.Balaraman Quality Engineer, Cognizant Technology solutions, Coimbatore
24.05.23	IT Technologies and Roles	Mr.P.Kamaleshwaran Linux Administrator, Tata consultancy services, Siruseri, Chennai
26.06.23	Automotive Product development and design	Mr.K.R.Santhosh kumar and P.Vethapuri Talent Acqusition Manager, Macbro Technology Pvt Ltd, Erode
28.07.23	3D Printing for Education and Innnovation	Mr.D.Milan Pradeep Operations Manager, Fabheads Automation Pvt Ltd, Chennai

INNOVATIVE PROGRAM

1. Opportunity in Software Company for Mechanical Engineering Students



Innovative Session On Advances in Additive Manufacturing



Innovative session On industrial 4.0

SYMPOSIUM :

Mechonsterz-2k23

The Mechonster Z-2023(A National Level Symposium) held on 9 March 2023 in V.S.B ENGINEERING COLLEGE, Karur (An Autonomous Institution). Our Vice Principal Mr. T. Kirubashankar M.E., (Ph. D) delivered welcome address. After that our HOD Dr. P. Raju M.B.A., Ph.D. has inaugurated the function. Over that the kuthuvilakku was lighted by the Chief guest, Principal, Vice Principal, Hod and students. The program was honoured by Dr. V. Anandakrishnan M.E., Ph.D. who is professor in National Institute of Technology, Trichy. In that Symposium more 250 than members were participated. In that event we had conducted the both technical events (Paper Presentation, CAD Modelling, Technical Quiz, Machining, Technical Seminar) and Non-Technical events (Rubik's Cube, Water Rocket, Think Different, Chess, Paper Stamping). In thee first session of the day happens with Technical Events and after the lunch break the second session of the day gone through the Non-Technical Events. After the and the day ends with the Thanks Note delivered by our HoD Dr. P. Raju M.BA., Ph. D.

PRIZE DISTRIBUTION

The culmination of the *Mechonsterz-2k23* was a momentous occasion marked by the highly anticipated Prize Distribution Ceremony. We had the pleasure of honoring outstanding individuals and acknowledging their exceptional contributions to the symposium.