



Department of Mechanical Engineering

**Sri Manakula Vinayagar Engineering College
ASM Material Advantage Student Chapter**



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Brief Overview of ASM Chapter

ASM student chapters

ASM International is a renowned professional society dedicated to advancing materials science and engineering. ASM student chapters play a crucial role in connecting students with the broader materials community and fostering their professional development. This overview provides an in-depth look at ASM student chapters and their significance in shaping the careers of aspiring materials scientists and engineers.

Introduction:

The **Material Advantage students' chapter** will be inaugurated at Sri Manakula Vinayagar Engineering College on 10-10-2014, Friday at 10.00 a.m. SMVE chairman and Managing Director Shri. M.Dhanasekaran would inaugurate the chapter. Director Dr.V.S.K.Venkatachalapathy would deliver the keynote address. Dr. Kamatchi Mudali, Chairman, ASM Chennai Chapter and other ASM members would take part in the function. SMVEC-ASM Chapters were organized many workshops and seminars with the support of ASM Chennai chapters.



The ASM student chapter serves as a platform for students interested in materials science and engineering to come together and engage in various activities and initiatives. It aims to provide students with opportunities for networking, professional

growth, and hands-on experience in their field of interest.

Membership:

Membership in an ASM student chapter offers numerous benefits to students. By becoming a member, students gain access to a vast array of resources, including technical publications, research databases, and career development tools. They also become part of a supportive community of like-minded individuals passionate about materials science.

Leadership and Organization:

ASM student chapters are typically led by a team of student officers who are responsible for organizing chapter activities and events. These officers, elected by the chapter members, include positions such as president, vice president, treasurer, and secretary. The leadership team collaborates with faculty advisors and ASM professionals to ensure the chapter's smooth functioning.

Activities and Events:

ASM student chapters organize a wide range of activities and events to enrich the academic and professional lives of their members. These may include technical lectures by industry experts, workshops on advanced materials characterization techniques, lab tours to gain practical insights, and seminars on emerging trends in materials science.

Research and Projects:

ASM student chapters provide avenues for students to engage in research projects and gain hands-on experience in materials science. They collaborate with faculty members, industry professionals, and other research organizations to facilitate research opportunities. This involvement allows students to explore their research interests, present their findings at conferences, and potentially publish their work.

Collaboration and Networking:

ASM student chapters actively collaborate with other student chapters, professional societies, and industry organizations. These collaborations provide opportunities for students to network with professionals and fellow students, fostering connections that may lead to internships, job placements, or research collaborations. Such networking opportunities are invaluable for expanding students' professional networks and gaining industry insights.

Professional Development:

ASM student chapters prioritize the professional development of their members. They offer workshops and seminars on resume building, interview skills, and career pathways within the materials field. Mock interviews and mentorship programs connect students with experienced professionals who provide guidance and support as they navigate their careers.

Outreach and Community Engagement:

ASM student chapters understand the importance of community engagement and outreach. They organize events and initiatives to promote materials science within their local communities, such as science fairs, educational demonstrations at schools, and public lectures. These efforts aim to raise awareness about the field and inspire the next generation of materials scientists and engineers.

Awards and Recognition:

ASM student chapters often provide opportunities for members to be recognized for their achievements. This can include scholarships, awards for outstanding academic performance, or research grants to support student projects. Such recognition enhances students' resumes and encourages them to strive for excellence in their academic pursuits. ASM student chapters play a pivotal role in shaping the academic and professional lives of students interested in materials science and engineering. Through their activities and initiatives, these chapters provide a supportive community, invaluable resources, and opportunities for networking, research, and career development. By joining an ASM student chapter, students gain access to a wealth of experiences and connections that contribute to their growth as materials scientists and engineers.

ASM student chapters provide a platform for students to engage in materials science and engineering beyond their academic coursework. By fostering collaboration, research opportunities, and professional development, these chapters lay the foundation for students' successful careers in the field.

Sl. No	Position	Name
1	College Dean or University Representative	Dr.V.S.K Venkatachalapthy Director cum Principal, SMVEC
2	Department Chair	Dr.K.Velmurugan Professor &Head/Mech,SMVEC
3	Faculty Advisor	Dr.A. Thiagarajan Associate Professor/Mech,SMVEC
4	Chair	Mr.S.Dhinessh Raj
5	Vice-Chair	Ms.K.Sivaranjani

6	Treasurer	Mr.V.Nanthakumaran
7	secretary	Mr.A.B.Sainnath




Details of Chapter Members (2023-24)

Sl. No	Name of the Student	Bearers	Membership ID
1	ANBUSELVAM S	Member	572117
2	ASHWINKUMAR S	Member	572118
3	BALAJI K	Member	572120
4	BARANIDHARAN M	Member	572223
5	BHUVANESSH A	Member	572234
6	DHINESH RAJ S	Chairman	572280
7	DHIVAKAR M	Member	572281
8	HARI HARA PRASAD S	Member	572292
9	HARINI R	Member	572295
10	JONESHVARAN R G	Member	572296
11	KAMARAJ K	Member	572297
12	KAILASH S G	Member	572299
13	KALAIARASI G	Member	572301
14	KARTHIKEYAN V	Member	572302
15	KEERTHANA N	Member	572304
16	KIRUBA K	Member	572306
17	KISHORE KUMAR R	Member	572328
18	MOHAMED DANVEER	Member	572332
19	MUHAMMED VASEEM P	Member	572333
20	MUTHUKUMARAN G	Member	572338
21	NANTHAKUMARAN V	Treasurer	572340
22	NAVANITH K K	Member	572341
23	PARTHASARATHI S	Member	572344
24	PRAKASH V	Member	572345
25	PRAVIN RAJ J S	Member	572346
26	PREMRAJ A	Member	572347
27	RAMKUMAR D	Member	572348
28	ROHITHKUMAR V	Member	572349
29	SAI HARINI V	Member	572350
30	SAINNATH A B	secretary	572351
31	SHANMUGAPRIYA V	Member	572352
32	SILAMBARASAANE T	Member	572353
33	SIVA SAI KRISHNA. S	Member	572356
34	SIVARANJANI K	Vice-Chairman	572358
35	SRIRAM R	Member	572359
36	SYED WAHID F	Member	572360
37	VAISHNAVI R	Member	572361
38	VIDHUSHAN G	Member	572362
39	VIJAYARAGAVAN M	Member	572363

ASM Faculty Advisor

Sl. No	Name of the Faculty	Email Address	MA Membership
1	Dr.A.THAGARAJAN	thiagusmvec@gmail.com	172779

Sri Manakula Vinayagar Engineering College (SMVEC), Puducherry.
Materials Advantage Student Chapter

		
Faculty Advisor	Chairman	secretary
Dr.A.Thiagarajan Associate Professor, Department of Mechanical Engineering, SMVEC, Puducherry. thiagusmvec@gmail.com	Mr.S. Dhinessh Raj B.Tech(Mechanical Engg) SMVEC, Puducherry sdrfuturearmy@gmail.com	Mr.A.B.Sainnath B.Tech(Mechanical Engg) SMVEC, Puducherry sainnath18@gmail.com

Programs organized for the academic year 2023-24

Sl. No	chapter's professional development events/programs	Technical events/programs	chapter's outreach events/programs	chapter's social events	Total Events Planned
1	04	06	03	02	15

Calendar Of Events

Sl. No.	Date	Title	No. Of Students
1.	10-06-2023	One Day Workshop on Industry 4.0	78
2.	26-08-2023	Workshop on Advanced Composite Materials and Opportunities in India	50
3.	04-11-2023	Guest Lecture on Recent Technology Developments of Powder Metallurgy and Applications.	76
4.	14-10-2023	Workshop on Fundamentals of Drone Technology and Futuristic Applications.	234
5.	19-12-2023	One Day Seminar on Solid waste management: Scope and the challenges of sustainability.	120
6.	23-02-2024	Two Days Workshop on IPR and Innovation	65
7.	27-02-2024	Celebrating World Sustainable Energy Day-2024 - Seminar on Minimize energy and storage Solutions for a cleaner Energy transition'	66
8.	28-02-2024	Celebrating National Science Day-2024 Seminar on Design and Development of Humanoid Robot.	30
9.	04-03-2024	Celebrating National Safety Day-2024 Guest Lecture on Industrial Safety and Standards.	48
10.	06-03-2024	Guest Lecture on Internship Opportunities and Funding Opportunities in Central Institutions.	100
11.	23-03-2024	Awareness Rally On Election Lok Sabha Election – 2024	20
12.	23-03-2024	NSS Activity Day (World Water Day)	52
13	30-03-2024	Campus Cleaning by ASM Volunteers	32
14.	02-05-2024	One-Day Workshop on Electric Vehicles	70
15	10-05-2024	Technical Quiz on Materials	15

Technical Programming

One Day Workshop on Industry 4.0

The SMVEC ASM Material Advantage Student Chapter and ASM International Chennai Chapter Jointly Organized One Day Workshop on Industry 4.0. The workshop was inaugurated by the Chief Guest **Mr.S. Shankar**, Engineering Manager, Caterpillar India Pvt Ltd. and **Dr. Srinivasa Rao Bakshi** Professor, Dept. of Metallurgical and Materials Engineering. IIT Madras-India.

The function began with a welcome speech by **Dr.K. Velmurugan**, Dean Research and Head, Department of Mechanical Engineering, Sri Manakula Vinayagar Engineering College (SMVEC). He welcomed the Chief Guest, Deans, Heads, Faculty's and students for the One day workshop on Industry 4.0.

Dr. A.A. Ariavalagar, Dean Academics (Core) SMVEC felicitate **Mr.S. Shankar** with a Shawl and Memento. He briefly introduced the ASM Student Chapter importance and benefits to students. He informed that currently more than 39 students and 2 faculty advisors are there in the SMVEC ASM Materials Advantage Students Chapter. He congratulated to **Dr. K.Velmurugan, Dr A. Thiagarajan** & his team for their successful attempt to establish an ASM SMVEC Student Chapter and wished them the best for the further events at SMVEC. He encouraged the chapter to conduct more activities, workshops, conference, seminar and contests that would reach out to the students and bring out the best in them. His inspirational and thoughtful words were greeted by loud applause by the assembled crowd.

Dr A. Thiagarajan Professor, Department of Mechanical Engineering, SMVEC invited to introduce the Chief Guest of this event **Mr.S. Shankar**. Then he congratulated the members for their initiative to established ASM Student chapter at SMVEC. He also stated importance of this chapter and make to involves more research in all the disciplines of engineering.

Mr.S. Shankar Engineering Manager, Caterpillar India Pvt Ltd. He was extremely happy to have been called upon to a one day workshop on Industry 4.0 for the ASM Student Chapter at SMVEC. **Mr.S. Shankar** briefed about the significance and achievements of the Advanced Materials Technology division at Caterpillar India, Chennai and its relevance to the student community in the modern times. He discussed about various types of trucks and the materials used to build and explained about the importance of Artificial Intelligence (AI), and Iot used in Industry 4.0.

Dr. Srinivasa Rao Bakshi, Professor, Dept. of Metallurgical and Materials Engg. IIT Madras. He was extremely happy to have been called upon to a one day workshop on Industry 4.0 for the ASM

Student Chapter at SMVEC. **Dr. Srinivasa Rao Bakshi** explained the importance of Thermal Spray Coating and the materials which are recently used for Thermal Spray Coating and also explained the importance of the Thermal Spray coating in Industry 4.0.

The one day workshop on Industry 4.0 of ASM Student Chapter came to an end with Vote of Thanks by **Dr.G.G.Sozhamannan** Professor, Department of Mechanical Engineering, SMVEC. He thanked the dignitaries for sparing their precious time and gracing the occasion by their kind presence. He also thanked the Deans, HODs, students, and faculty members who left no stone unturned to make the Workshop a grand success. Lastly, he expressed his sincere thanks to all organizing committee members who have actively played their role in planning and organizing this ASM Student Chapter event.

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Department of Mechanical Engineering
SMVEC ASM Materials Advantage Student Chapter
and
ASM International, Chennai Chapter

Jointly Organised
One Day 'Workshop on Industry 4.0'
Keynote Speakers

Mr. S. SHANKAR
Engineering Manager,
Caterpillar India Pvt Ltd.

Dr. SRINIVASA RAO BAKSHI,
Professor
Dept. of Metallurgical and Materials Engg. IIT Madras.

Date: 10th June 2023 Venue: Auditorium, SMVEC



Workshop on Advanced Composite Materials and Opportunities in India

Objectives of the Workshop:

The objective of the workshop is to provide the students to understand the practical knowledge in the field of composite materials. This workshop has covered the important topics like Introduction to composites, types of composites, applications and manufacturing of composite materials, failure analysis and design of sandwich structures.

The Department of Mechanical Engineering and SMVEC ASM Material Advantage Student Chapter Jointly Organized **One Day ‘Workshop on Advanced Composite Materials and Opportunities in India’** on 26th August 2023 at Conference Hall. The workshop was inaugurated by the Chief Guest **Mr. R.Veeramanikandan**, Executive Director, Mannschaft Engineering Solution Private Limited, Puducherry.

The function began with a welcome speech by **Dr.K.Velmurugan**, Dean Research & Professor, Department of Mechanical Engineering, Sri Manakula Vinayagar Engineering College (SMVEC). He welcomed the Chief Guest, Deans, Heads, Faculty’s and students for the One day workshop on Advanced Composite Materials and Opportunities in India.

Dr.G.G. Sozhamannan Professor & Head, Department of Mechanical Engineering, SMVEC, felicitate **Mr. R. Veeramanikandan** with a Shawl and Memento. He briefly introduced the ASM Student Chapter programme organised by the department and students’ contribution in advance materials. He briefly explained the ASM funding opportunities to faculties and students. He encouraged the chapter to conduct more activities, workshops, conference, seminar and contests that would reach out to the students and bring out the best in them. His inspirational and thoughtful words were greeted by loud applauses by the assembled crowd.

Dr. K. Hemalatha, Associate Professor, Department of Mechanical Engineering, SMVEC invited to introduce the Chief Guest.

Mr. R.Veeramanikandan, Executive Director, Mannschaft Engineering Solution Private Limited, Puducherry. He was extremely happy to have been called upon to a **One Day ‘Workshop on Advanced Composite Materials and Opportunities in India’** for the ASM Student Chapter at SMVEC. He briefed about various types of composites such as Metal Matrix Composites, Ceramic Matrix Composites and Polymer Matrix Composites and compared the properties of composites with other materials. Continuing with detailing the characteristics of composite resins matrices and properties of natural and synthetic fibers. He also Explained the various manufacturing processes involved in manufacturing of polymer composites and displayed various Fibers available in the market. He demonstrated the Hand lay-Up and VARTM techniques for the preparation of laminates. Detailed design ,material selection, mixing ratio , testing are discussed . He also explained various test conducted for FRP such as tensile test, flexural test, hardness test, impact test, flame, wear test, fatigue, creep, scanning electron microscope and concluded the talk applications of composites in various industries and future scope of composites in industries and R&D sectors. He discussed

about FRP boat manufacturing unit at Marakannam . Finally he presented the scope for FRP market and job opportunities in India.

The one day workshop on **Advanced Composite Materials and Opportunities in India** of ASM Student Chapter came to an end with Vote of Thanks by **Dr.A.Thiagarajan**, Associate Professor, Department of Mechanical Engineering, SMVEC. He thanked the dignitaries for sparing their precious time and gracing the occasion by their kind presence. He also thanked the Deans, HODs, students, and faculty members who left no stone unturned to make the Workshop a grand success. Lastly, he expressed his sincere thanks to all organizing committee members who have actively played their role in planning and organizing this ASM Student Chapter event.



Dignitaries on the Dias

Guest Lecture on Recent Technology Developments of Powder Metallurgy and Applications.

Objectives of the Lecture:

- ✓ Processes for manufacturing metallic components from metal powders.
- ✓ Fusing of metal powders using a laser
- ✓ Atomization of molten metal
- ✓ Key powder characteristics
- ✓ Powder blending, die compaction and sintering
- ✓ Industry demands and applications

The Department of Mechanical Engineering and SMVEC ASM Material Advantage Student Chapter Jointly Organized **Guest Lecture on ‘Recent Technology Developments of Powder Metallurgy**

and Applications' on 04th November 2023 at Conference Hall. The program was inaugurated by the Chief Guest **Mr.D.Velmourougane**, Director Operation Seja Sinters Private Limited, Puducherry.

The function began with a welcome speech by **Dr.K.Velmurugan**, Dean Research & Professor, Department of Mechanical Engineering, Sri Manakula Vinayagar Engineering College (SMVEC). He welcomed the Chief Guest, Deans, Heads, Faculty's and students for the **Guest Lecture on 'Recent Technology Developments of Powder Metallurgy and Applications'**

Dr.K.Velmurugan, Dean Research, felicitate **Mr.D.Velmourougane** with a Shawl and Memento.

He briefly introduced the ASM Student Chapter programme organised by the department and students' contribution in advance materials. He briefly explained the ASM funding opportunities to faculty and students. He encouraged the Materials advantage students chapter to conduct more activities, workshops, conference, seminar and contests that would reach out to the students and bring out the best in them. His inspirational and thoughtful words were greeted by loud applause by the assembled crowd.

Dr. A.Thiagarajan, Associate Professor, Department of Mechanical Engineering, SMVEC invited to introduce the Chief Guest.

Mr.D.Velmourougane, Director Operation Seja Sinters Private Limited, Puducherry. He was extremely happy to have been called upon to a **Guest Lecture on 'Recent Technology Developments of Powder Metallurgy and Applications'** for the ASM Student Chapter at SMVEC. He discussed about the basic steps involved in powder metallurgy. He also Explained the various manufacturing processes involved in metal components. He demonstrated the development of gear components from SS401 powder. Detailed selection of materials, design process, processing parameters and testing were presented.

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Madagadipet, Puducherry

 **Department of Mechanical Engineering and SMVEC ASM Students Materials Advantage Chapter** 
Jointly Organizes

Guest Lecture on Recent Technology Developments of Powder Metallurgy and Applications

Resource Person
Mr.D.VELMOUROUGANE
Director Operation
Seja Sinters Private Limited
Puducherry.

Date: 4.11.2023 Venue: SMVEC, Auditorium



Dr..K.Velmurugan, Dean Research felicitate the Guest with shawl.

Workshop on Fundamentals of Drone Technology and Futuristic Applications

The Department of Mechanical Engineering and in association of The ASM Students Chapter (ASM) jointly organized One Day Workshop on ‘Fundamentals of Drone Technology and Futuristic Applications’ on 14th October 2023 Saturday at Auditorium, SMVEC. More than 234 UG students and 15 faculty members participated in this workshop.

Objectives of the Workshop:

- To provide foundational knowledge about drone technology and its business applications.
- Types of Drones and technology can be used for personal, commercial and security purposes.
- To provide the student a hands-on experience of Drone assembly.

The one-day workshop session was started at 11 AM on 14st October 2023, the Workshop was initiated by **Dr. K. Velmurugan**, Dean Research, SMVEC and proposed welcome address. He briefed about the TRS activities performed by students and objectives of the workshop. **Dr. A.A.Arivalagar**, Dean Academics (Core) delivered the Felicitation address to the gathering. He talked about the latest technology and skills required for Engineering students for industry. The resource person **Mr.P.Tharun** Senior Drone Pilot, De Drone world, was introduced by **Mr.R.Veeramanikandan**. Executive Director Mannschaft Engineering Solution, Puducherry.

Mr.P.Tharun Senior Drone Pilot, De Drone world, gave inaugural speech, he explained the Principles of flights, Anatomy of Drones, Types of drones ,Motors and Power management in drones, Application of Dornes in various industry. Information on various industry collaboration on drone technology and various competition related to Drone were also briefed. He also explained the future demands and market of Drones. Finally, he presented the DGCA Accessibility Standards and Guidelines for Drone pilot.

At the end, **Dr.A.Thiagarajan**, Associate Professor Department of Mechanical Engineering, SMVEC gave a formal vote of thanks.

Outcomes of the One Day workshop:

- Students gained knowledge on Drone Technology.
- Students acquired skill to develop projects.
- Students gained practical knowledge on how to Interface various kinds of propellers, motors and sensors.
- Students acquired knowledge on assembly and controlling of Drones.



Felicitation address by Dr. A. A. Arivalagar Dean Academics

One Day Seminar on Solid waste management: Scope and the challenges of sustainability.



Two Days Workshop on IPR and Innovation

ASM Material Advantage student chapter and Department of Mechanical Engineering jointly organised Two Days' Workshop on IPR and Innovation on 23rd and 24th February 2024. The resource person **Dr. P. Jayakumar Patent Consultant , JS-IP Design Solutions**, Madurai gave a brief introduction about IPR and its importance, in this day a small event was also conducted where students of Mechanical Engineering showcased their creativity by providing ideas to enhance the existing products. Each student added a unique feature to different new products. The speaker provided valuable insights into various aspects of IPR, including patents, trademarks, and copyrights. The detailed process of filing patents was explained, and students were encouraged to share their novel ideas. The session aimed to educate participants on protecting their intellectual property and fostering an environment that promotes innovation. The participants got a very good information and knowledge in IPR. Overall, the event provided a platform for students to unleash their creativity and learn about the importance of protecting their inventive ideas through intellectual property rights.

Faculty Coordinator Name:

Dr.A.Thiagarajan, Associate Professor, Department of Mechanical Engineering,
E-mail id: thiagusmvec@gmail.com, Mobile:9092608765.

Number of Participants: 65 Students from B.Tech Mechanical Engineering

Student Feedback: Students actively engaged in the event, demonstrating their enthusiasm and commitment to the session's objectives by showcasing their innovative talents.

Event Objectives:

- To acquaint the students with basics of intellectual property rights and patent filing.
- To compare and contrast the different forms of intellectual property protection in terms of their key differences and similarities.

Learning Outcomes:

The session inspired students to cultivate and employ **creative and inventive thinking abilities** for problem-solving, generating novel ideas, and crafting unique solutions, all while gaining insights into the intricacies of the patent filing process.



Participation of students in Two Day workshop in IPR and Innovation

Celebrating World Sustainable Energy Day-2024- Seminar on Minimize energy and storage Solutions for a cleaner Energy transition'

The Department of Mechanical Engineering and SMVEC ASM Material Advantage Student Chapter celebrating World Sustainable Energy Day -2024 and organised One day Seminar on Minimize energy and storage solutions for a cleaner energy transition at SMVEC on 27-02-2024. The seminar was inaugurated by the Chief Guest **Thiru. T.Chanemougam**, Superintending Engineer cum HOD, Electricity Department, Puducherry. Dr.K.Velmurugan Dean research presided the function , Dr.G.G.Sozhamannan, Professor &Head from Mechanical Engineering give warm welcome to the students and the chief guest .

Thiru. T.Chanemougam in his talk discussed about the global and national scenario of the various energy resources and regulations thereof. He discussed about the importance of Energy consumptions and explore innovative approaches to address the global energy challenges while prioritizing environmental sustainability. He presented the **Central Scheme of Surya Ghar** and registration procedures to the participants.

The World Sustainable Energy Day seminar concluded with a sense of optimism and commitment to accelerating the transition to sustainable energy. At the end of the seminar Dr.A.Thiagarajan. Associate Professor, Department of Mechanical Engineering, SMVEC formally thanked all the participants for their active participation.

Faculty Coordinator Name:

Dr.A.Thiagarajan, Associate Professor, Department of Mechanical Engineering,
E-mail id: thiagusmvec@gmail.com, Mobile:9092608765.

Number of Participants: 66 students from I Year B.Tech Mechanical Engineering .

Students Feedback: The World Sustainable Energy Day seminar was a transformative experience for students, offering a unique opportunity to delve into the complexities of sustainable energy solutions. Students appreciated the in-depth sessions on renewable energy technologies, energy consumption, storage and sustainable infrastructure development. The event not only broadened their understanding of sustainable energy but also inspired them to actively contribute to a greener and more sustainable future.



Department of Mechanical Engineering

In association with

ASM Materials Advantage Students chapter



Organises

Seminar on 'Minimize energy and storage solutions for a cleaner energy transition'

Celebrating World Sustainable Energy Day

on 27-02-2024@10.30 am



Speaker

Thiru. T. Chanemougam

Superintending Engineer cum HOD
Electricity Department
Puducherry.



'Lets preserve nature for a brighter future'.

Event Objective:

- To identify the suitable technologies, tools and processes that can ensure the sustainable global society.

Learning Outcomes:

- Proceedings on Advanced knowledge on various aspects of developments of technologies, processes, techniques, materials, policies and promotional activities for sustainable development.

Celebrating National Science Day-2024- 'Seminar on Design and Development of Humanoid Robot'

The Department of Mechanical Engineering and SMVEC ASM Students Chapter celebrating National Science Day -2024 and organized One day Seminar on Design and Development of Humanoid Robot at SMVEC on 28-02-2024. The event aimed to provide insights into the latest advancements in designing of robots and development , offering a platform for students to engage with the subject. The seminar was inaugurated by the Chief Guest cum speaker **Mr. B. Sethuram**, Co-Pilot, You can Fly, Puducherry. Dr.G.G.Sozhamannan, Professor &Head from Mechanical Engineering give warm welcome to the students and the chief guest .

Mr. B. Sethuram, an expert in the field designing of robots for various applications, was the distinguished speaker for the event. His extensive experience and expertise in the domain promised to deliver an insightful and informative session. He discussed about the history of robots and various tools for designing of humanoid robot. He addressed the features of ASIMO (Advanced Step in Innovative Mobility) is a humanoid robot that was created by Honda in 2000.

He demonstrated the designed parts by Solid works and development of new parts using additive manufacturing techniques. Mr. B. Sethuram employed a variety of teaching aids, including relevant videos and engaging PowerPoint presentations. These visual aids effectively conveyed the information's for better understanding. Following the insightful presentation, an interactive session was initiated. Students actively participated, asking thought-provoking questions and engaging in discussions. At the end of the seminar Dr.A.Thiagarajan. event coordinator and Associate Professor in the Department of Mechanical Engineering, SMVEC extended heartfelt gratitude to Mr. Mr. B. Sethuram for his illuminating speech and invaluable insights. The coordinator thanked the HoD/Mech, Deans, Director, and management for their crucial support in organizing the enriching event. Their encouragement was vital for its success.



Faculty Coordinator Name:

Dr.A.Thiagarajan, Associate Professor, Department of Mechanical Engineering,
E-mail id: thiagusmvec@gmail.com, Mobile:9092608765.

Number of Participants: 30 students from B.Tech Mechanical Engineering .

Students Feedback:

- Students appreciated gaining insights into the latest developments in robotics.
- Students found the content to be relevant and engaging.

- Many expressed enthusiasms for pursuing further studies or careers in robotics after attending the seminar.

Event Objectives:

- To introduce the applications of robots in real life situations.
- To explore various applications of robots in day to day life and industrial technology.

Learning Outcomes:

- The students were able to acquire practical aspects and real-life applications of Robotics in the field of Engineering and Bio medical.
- The students were given insights on various Robotics Transformation Software Products and its usage.

Celebrating National Safety Day-2024 Guest Lecture on Industrial Safety and Standards

The Department of Mechanical Engineering and SMVEC ASM Material advantage Student Chapter National Safety Day was commemorated by organized a **Guest Lecture on the topic 'Industrial Safety and Standard's'** by the resource person **Mr. V. Premnath, Plant -Health, Safety and Environment Manger, Poclain Hydraulic Pvt limited, Puducherry** on 04-03-2024 at AICTE Idea Lab, SMVEC. Dr.G.G.Sozhamannan Professor&Head Mechanical Engineering presided over the session and delivered the presential address. Dr.S. Ravishankar, Professor/Mech welcomed the gathering and Dr.A.Thiagarajan, Event coordinator and ASM faculty advisor introduced the resource person to the participants. The Guest lecture aimed to provide insights into the safety practices, accident reporting and factory acts , government rules and regulations for safety in India.

Mr. V. Premnath explained the safety practices followed in Poclain industries. He explained the importance of safety in the workplace as well as industrial sector. He discussed various accidents, their reasons and how they could be avoided if SOPs i.e., Standard Operating Procedures are followed with help of graphics & live videos. The presentation also highlighted the key challenges faced in the industry, such as lack of awareness, inadequate infrastructure for workers, enforcement issues, and workers behaviour. Mr. V. Premnath presentation was informative and engaging, and the Q&A session facilitated a fruitful exchange of ideas. The event was well-coordinated by Dr..A.Thiagarajan and the active participation of students . The event served as an informative platform for students to gain insights into crucial aspects of industrial safety



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Department of Mechanical Engineering



In association with
ASM Material Advantage Students chapter



Organises

'Guest Lecture on Industrial Safety and Standards'

Celebrating National Safety Day-2024



Speaker

Mr. V. PREMNATH

Plant-Health, Safety and Environment Manager
Poclaim Hydraulic Pvt Limited
Puducherry.

Date: 04th March 2024, Monday | Venue: CAD Lab



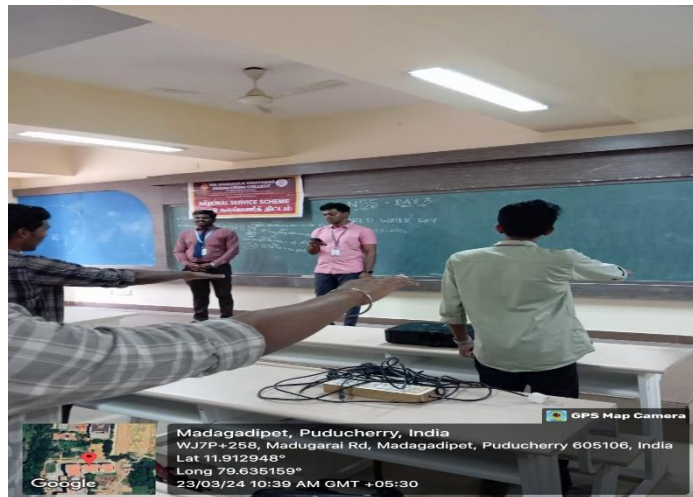
Felicitation of Expert: Mr.V.Premnath, Plant-Health , Safety Manager, Poclaim by Dr.G.G.Sozhamannan,Professor&Head Mechanical.

Faculty Coordinator Name:

Dr.A.Thiagarajan, Associate Professor, Department of Mechanical Engineering,
E-mail id: thiagusmvec@gmail.com, Mobile:9092608765.

Number of Participants: 48 students from B.Tech Mechanical Engineering .

NSS Activity Day (World Water Day)



Campus Cleaning by ASM Volunteers



One-Day Workshop on Electric Vehicles



Demonstrating E-Vehicles components

Technical Quiz on Materials Science and Engineering



Students' participation in Quiz Program