National Institute of Technology Jamshedpur
(An Institute of National Importance under MHRD, GOI)

CELEBRATING

START-UP INDIA

PRAGYAN

2ND EDITION

ANNUAL REPORT

MECHANICAL ENGINEERING SOCIETY

INTRODUCTION

MECHANICAL ENGINEERING DEPARTMENT:

Established in 1960, the department envisions imparting world-class education in the field of mechanical engineering, conducting extensive and quality research, and propelling innovations for the betterment of society. The department of mechanical engineering trains young minds and equips them with the best possible technical knowledge to meet the current and future demands of industry, academia, and research.

MECHANICAL EGINEERING SOCIETY:

The Mechanical Engineering Society at NIT Jamshedpur was established to promote skill development activities among the institute's aspiring technocrats. The society works all year for the benefit of the students by organizing workshops, guest lectures, group discussions, an annual fest, and a variety of other activities to help students improve their soft skills as well as their technical knowledge. M.E.S., the institute's oldest and most active society, takes pride in grooming aspiring engineers and serving as their stalwart guides throughout their time at the institute.

PRAGYAN

Pragyan is the annual report magazine of NIT Jamshedpur's Mechanical Engineering Society. It is a chronological compilation of student activities facilitated by the Mechanical Engineering Society. The annual branch fest of the Mechanical Department, "COGNITIO", was a major success in terms of inclusive growth and industrial awareness.

Pragyan this year puts a great deal of emphasis on Indian entrepreneurs' capability as problem solvers. With the theme of "Start-Up India", this year's issue of Pragyan carries the baton of not only showing what has changed but also how it has progressed. The brilliant young minds that solve business and problem statistical equations leave footprints in the sand that the students of MED at NIT Jamshedpur tread.

Last year's Pragyan was a fantastic resource for what was accomplished in the calendar year 2018. The second issue of Pragyan is a significant step up from the first. Evolving is at the heart of mechanical engineering, and this year's edition embodies that spirit while taking a step forward in its legacy.

Pragyan, which means "Wisdom" in Sanskrit, commemorates students' efforts to lay a solid foundation for future endeavors and celebrates India's scientific and technological advancements that have helped it become a global superpower. Pragyan represents the nation's engineering strengths, which drive technological and infrastructure growth.

Pragyan encourages and empowers everyone to be the best version of themselves by showcasing their achievements on various platforms.

From the Desk of the Chairperson

Dr. SANJAY
(Chairperson, M.E.S)

The Mechanical Engineering Society was founded to catalyze the overall development of the students of the Mechanical department. Since its inception, it has taken numerous steps that have benefited the department's students in a variety of ways. The society has undergone a complete transformation in recent years and is now active throughout the year, hosting a variety of small to large-scale events. The events are designed to make the department's students competent and professional in their approach.

The department's faculty has been involved in cutting-edge research in many emerging fields, including smart materials, renewable energy, nano-energy, and thermofluids, to name a few. The department's average faculty publication per year is among the highest in the institute. Furthermore, the Mechanical Engineering Department has the highest h-index in the institute. As of today, the department has 600+ publications, 7000+ citations, and an h-index of 43. The Department has been actively involved in the organization of prestigious workshops, seminars, karyashalas, FDPs, and GIAN programs, as well as national and international conferences. Through these events, the department has been able to establish a network of reputable faculty and students from all over the world.

Pragyan was launched as a great way to highlight the Mechanical Department's activities and events throughout the year. I wish the team the best of luck in its future endeavours and hope that society sets new goals and benchmarks to achieve each year leading to growth and improvement.

From the Desk of the Prof-in-Charge

"Pragyan" is a fantastic initiative by the Mechanical Engineering Society (M.E.S.) to raise awareness of the department's ongoing activities. The magazine's main goal is to provide a brief overview of the events held by the society in the department and the institution. Furthermore, the magazine will be extremely beneficial by emphasizing the significance of events and how these events will aid in general personality development and skill development in particular. The society has worked extremely hard to achieve its mission and vision. Society's achievements have been increasing at an exponential rate.

Being Prof-In-Charge of the Mechanical Engineering Society, I feel immense pleasure and satisfaction in informing you that the year has been a great success for all of us and I hope that the society will set even higher goals for the future. Our Mechanical Engineering Society will reach new heights this year.

I hope that the society is recognized at the national level under the dynamic leadership of the M.E.S office bearers and hope that the new and additional members in the upcoming calendar year would make the society more glorious by uplifting it to higher standards.

Dr. BIPIN KUMAR

(Prof-in-Charge, M.E.S)

MESSAGE FROM PRESIDENT

PRASOON JHA
(President , M.E.S)

Mechanical Engineering Department is one of the most respected arms of our esteemed institution.
It has immense faith in its faculties and students. The culture of this department is deeply rooted in a healthy teacher-student relationship. M.E.S (Mechanical Engineering Society), a student body representing this branch, feels proud of our department's achievements over the year, be it in research projects, promoting technology, critical thinking, etc. With the sole motive of developing the personality of each student, M.E.S organizes a variety of events all year round and one gets plenty of chances to hone their respective skills cometh the time. It is said smart are those who grab the coming opportunity with both hands, I would recommend that students seriously follow this mantra. I can vouch for it. College life is full of excitement and challenges, sometimes the next step seems vague, hence one needs to cultivate patience. Being a part of this society, more like a family now, I can assure you that the office bearers here will always be on their toe for the betterment of our department.
M.E.S gave me more than one could ask for, the people skills, communication, and management skills. All credit goes to the responsibilities that are bestowed upon the office bearers. I can't recommend enough to students of upcoming batches to explore the human within. Life is full of uncertainties, this virtue makes life worth living. Every morning gives you a fresh page to write on, make sure that page is filled with good memories. As far as your career is concerned, you are at the right place with supportive people around you, and life will always get better from here on.
Finally coming to 'Pragyan', it is the celebration of our department. It is the culmination of hard work by the students, I hope it will give the necessary impetus to all to give their best in every walk of life.

ANIKET MISHRA

(Vice President , M.E.S)

MESSAGE FROM VICE-PRESIDENT

I joined the Mechanical Engineering Society in my first year and since then it has been a wonderful journey full of learning, growth, and happiness. MES taught me how to be a professional when it comes to work ethics and how to work selflessly for my fellow mates. It also made me realize that one should not overburden oneself because your friends are always there for you.

MES allowed me to learn from so many talented seniors and work with hardworking juniors. I truly believe that all the MES members have acquired great managerial skills due to the various events we have organized in these past years. I can confidently say that MES is the best thing that happened to me in college and I will always cherish the bonds that I have created here.

This edition of Pragyan showcases our previous efforts and we promise that MES will work even harder in the days to come.

MESSAGE FROM GENERAL SECRETARY

Santosh Paul
(General Secretary, M.E.S)

I remember my first year of B.Tech., when I joined the Mechanical Engineering Society; that was a life-changing moment for me. I always wanted to find the best version of myself, and as of now, I can surely say that MES is the best thing that happened to me at NIT Jamshedpur and that it has tremendously helped me grow in my career. MES was established to promote personality development, problem-solving skills, and academic and industrial technology awareness among the students. It has now emerged as a platform where students are nurtured to get excellent technical and managerial expertise. Although several challenges came along its way, MES always focused on its motto, i.e., "develop, deliver, and delight." But as we know, "Whenever there is a challenge, there is also an opportunity to face it, to demonstrate and develop our will and determination." We always try to do great things, and due to the dedication, enthusiasm, and hard work of the team, we organised COGNITIO'22 in the academic year 2022–23. The great participation and enthusiasm of students, as well as the presence of professors, made COGNITIO'22 a successful and memorable event for us. Finally, I'd like to express my gratitude to everyone involved with MES as office bearers for their dedication and enthusiasm. I believe that MES will continue to do great things with flying colors.

OFFICE BEARERS

NAME	REGISTRATION ID	DESIGNATION
PRASOON JHA	2019UGME007	PRESIDENT
ANIKET MISHRA	2019UGME057	VICE PRESIDENT
SANTOSH KUMAR PAUL	2019UGME045	GENERAL SECRETARY
NATASHA AGARWAL	2019UGME004	TREASURER
AMISHA MAHTO	2020UGME036	JOINT SECRETARY
DIPU KR. SRIVASTAVA	2020UGME087	JOINT SECRETARY
MANAN NAINIWAL	2020UGME075	JOINT SECRETARY
NITISH KUMAR	2020UGME061	JOINT SECRETARY
SRAVYA RASAKULA	2020UGME074	JOINT SECRETARY
ADITYARAJ RATH	2021UGME033	COORDINATOR
ANUSHKA OJHA	2021UGME063	COORDINATOR
ARSHIT KUMAR	2021UGME032	COORDINATOR
FAIZAN AHMED	2021UGME006	COORDINATOR
PRIYANSHU RAJ	2021UGME038	COORDINATOR
SONALI KUMARI	2021UGME043	COORDINATOR

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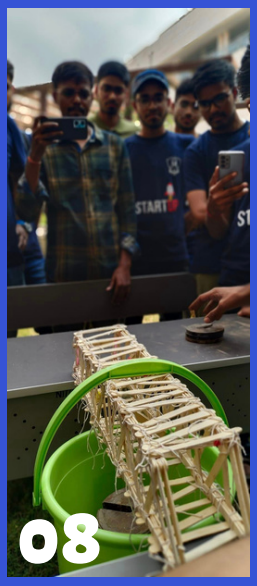

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START-UP INDIA

Startups have received increased attention in many parts of the world in recent years. In India, the number of startups has rapidly increased, and more assistance is now available in all dimensions. India is frequently referred to as the "*poster child of emerging markets*" due to its vast commercial potential for startups.

Startups are widely acknowledged today as important engines of growth and job creation. Startups can generate impactful solutions through innovation and scalable technology, acting as vehicles for socioeconomic development and transformation.

Entrepreneurship has always been a torch bearer in our country. Moving forward with the uncertainty of the time has always prepared us for unprecedented. Turning back the clock, it switches to the Tata Group. The Tata Group was founded as a private trading firm in 1868 by entrepreneur and philanthropist Jamsetji Nusserwanji Tata. After Jamsetji died in 1904, his son, Sir Dorab Tata, took over as chairman of the Tata Group. Under Dorab's leadership, the group quickly diversified, venturing into a vast array of new industries, including steel (1907), electricity (1910), education (1911), consumer goods (1917), aviation (1932), etc.

Following the rat race India became the home ground of various startups

Following the rat race, India became the home to numerous startups and corporations, like Dabur India (1884), Kirloskar (1888), Godrej Group, Bajaj Group, Cipla, Larsen & Toubro, Infosys, Wipro, etc. On a dark day with a clear sky, disaster struck as India's economy had just begun to pick up pace with its developing markets. In 1988, the markets began to collapse and the indexes started crashing, which led to a barren land with a series of startups yet to be founded.

The end of the 20th century saw India rising as the 'software hub' of the world. It started a tech revolution resulting in multiple Indian start-ups involved in innovating cutting-edge technologies. Soon, some of these start-ups evolved and became unicorns. Today, India ranks third, just behind the USA and China when it comes to the number of unicorns. India has become 3rd largest start-up ecosystem in the world after US and China. The number of newly recognized start-ups saw an exponential jump to over 84000 in 2021-22

from 471 in 2016-17.India hit a century of unicorns in September of 2022. 21 Indian start-ups achieved unicorn status in 2022 taking the overall tally of unicorns to 108, most of which are in the service sector.

The growth of unicorns in India has been phenomenal in the past few years. In 2018, there were 17 Unicorns, the number went up to 38 in 2020. The highest number was achieved post-covid at 44 in 2021 and 21 in 2022 ending with 108. Many of these unicorns, which have cumulatively raised more than 9 billion dollars to date, have also seen a surge in valuations. This data was mentioned in the Economic Survey 2021-22 as well. Some of the successful Indian unicorns are Lenskart, Cred, Meesho, PharmEasy, Licious, Grofers, etc.

Fintech was arguably the biggest contributor to the unicorn universe. CRED, Groww, Zeta, BharatPe, Mobikwik, Upstox, and Slice were the fintech additions to the services sector. Edtechs like Byju's, Eruditus, upGrad, and Vedantu also got added to the list.

The Indian economy is in expansion mode, and start-ups are slowly gaining footing all across the country. The unicorns are the best examples of how to capture the consumer base effectively for longer periods of time. More start-ups can become unicorns if the right lessons are learned and implemented.

More consumer-centric models need to be innovated to capture a larger population base. The target shouldn't be limited to urban areas but should reach rural India too, thereby addressing the digital divide in the process. Proper branding and strategy, use of deep technology, and execution of the consumer acquisition strategy will lead to attracting venture capitalists and more investments, which are the bedrock of any startup.

The Indian government's policies like "Make in India," "Digital India," "Atmanirbhar Bharat," etc., show the enthusiasm to attract talents that should be taken advantage of by early-stage startups.

"Innovation and economic growth depend on being able to produce excellent individuals with the right skills and attitudes who need to be entrepreneurial in their professional lives."

CORPORATE CRUNCH

Placement process requires tons of ideation and thought process underway altogether. To put these thoughts of the upcoming technocrats in one place, the **Mechanical Engineering Society** in association with the **Training & Placement Cell** organized the "Corporate's Crunch". Here the class of '22 played a vital role by sharing their immense experience with everyone.

It not only gave everyone a gist of how things should be handled under pressure but also explained what things ought to be done to excel. The class of '22 shared their experience to their junior batches with the aim to help the budding engineers before they launch into the corporate arena.

DESCRIPTO

Mechanical Engineering Society hosted a fun online event called Descripto. To provide freshmen with mechanical trade knowledge and to strengthen their skills and understanding in this field. The event inspired the students to write down their thoughts on the branch and describe it in two to four lines. The event aimed to improve participants' understanding of the branch and encourage the students' inner writers . This not only increases their perspective towards the branch but also increases their drive to make the branch move forward and thrive for greatness. Descripto'21 witnessed amazing participation by the Mechanical 2k20 batch and the entries reflected the unique perspective and creativity of the students. Considering the scores in Rounds 1 & 2, the Top 3 entries of this event were:

1. Ritu Kumari (2020UGME093)
2. Amisha Mahto (2020UGME036)
3. Utkarsh Raj (2020UGME100)

"From wheels to your every gear,
From sight of welding sparkles to the sounds of every movement you hear,
We move the world from every problem and fear,
And still people ask me, "what you'll do after becoming a Mechanical Engineer!"

- Ritu Kumari (2020UGME093)
(Winner Descripto)

TEACHER'S DAY

Their wisdom, dedication, and kindness always lead us on the right path and inspire us to be better human beings. Thus, to honour the pillars of our department, the Mechanical Engineering Society conducted a programme on Teacher's Day to honour the teachers of our department.

The programme began with the lighting of a diya in honour of Dr. Sarvepalli Radhakrishnan and was followed by the chanting of Saraswati Vandana. After that, students highlighted the significance of the day, which enlightened us about the importance of teachers in our lives. The students of the department then showcased their talents to honour our professors by performing a song followed by a dance performance. One of the students also performed a stand-up routine.

A retro quiz competition was also organized in which teachers had to guess the song, movie, or celebrities and then enact it. Thy also also showcased their talent. The outstanding guitar performance of Prof. Dr. Ashok Kumar Mandal enthralled the audience. The program ended with some inspirational words from Prof. Shalendra Kumar, Prof. Dr. Dulari Hansdah, and Prof. Prabha Chand. The combined efforts of everyone made the event a huge success.

"A TEACHER IS A CANDLE WHO SPENDS THE WHOLE LIFE LIGHTING UP THE LIVES OF STUDENTS."

ORIENTATION PROGRAM

To welcome the new batch and give them an insight of our branch, different events, clubs and teams, Mechanical Engineering Society organized an orientation programme for the freshers of batch 2k21. The programme commenced with the jovial welcome of new members of MES family followed by presentation with introduction of Mechanical Engineering, different events being organized under it's umbrella, brief introduction of various clubs, societies, technical teams and major fests of our institute.

After the presentation, respected Director Sir, Karunesh Kumar Shukla enlightened everyone with his inspiring words. The head of department, Professor Shailendra Kumar welcomed everyone and encouraged to explore different fields of mechanical engineering. Dulari ma'am, Professor Sanjay, Professor In-charge of MES also impelled them to never give up in any situation.

Later on, all the teachers addressed the students welcoming them to their new lives at NIT Jamshedpur. The programme ended with a vote of thanks by the President of Mechanical Engineering Society.

INDUCTION PROCESS

The Mechanical Engineering Society embarked on a journey to select the next torchbearers of the society. As every batch needs a fine set of volunteers among the new batch to coordinate with the branch and the society, MES conducted its induction session for batch 2k21 in July.

The induction process was divided into two days and was filled with excitement from the entire batch eager to participate in branch activities and the induction process to become the future officebearers.

Day 1- involved with young minds brainstorming over the ideas and expressing themselves thoroughly in the Group discussion round. Whereas some discussions turned up to be more heated others were more on the factual side.
Day 2- After being judged on their confidence, analytical skills, and group attitude, the shortlisted candidates moved onto the personal interview round. The candidates were interviewed by panelists consisting of the senior MES members and were judged based on their attitude, personality, presence of mind, communication skills, and dedication.

PRAGYAN

MES INDUCTEES'22

Arshit Kumar	2021UGME032
Adityaraj Rath	2021UGME033
Sonali Kumari	2021UGME043
Faizan Ahmed	2021UGME006
Anushka Ojha	2021UGME063
Priyanshu Raj	2021UGME038

COGNITIO '22

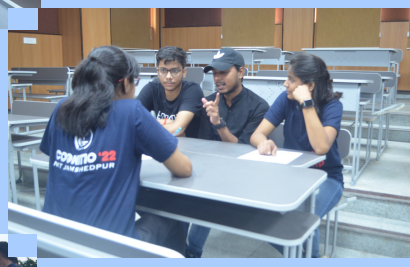
The annual fest of the mechanical engineering branch, **Cognitio 2022**, returned after a two-year hiatus and was held from **14th-16th of October 2022.** The fact that this edition of Cognitio would take place after a two-year break made it particularly unique, but it was also one of the first events of its kind for the class of 2021, which introduced them to the competitiveness and bright talents confined within their own mechanical engineering branch. The team sought to instill startup culture in young minds and send them on a thrilling voyage to uncover the entrepreneurial mind that was confined within them, hence the theme, "Unicorn Odyssey".

Since they catered to both the principles of technocrats and the burgeoning bureaucrats, the events were expanded to accommodate everyone in attendance. The events harnessed the technical prowess as well as the analytical skills of an individual.

Cognitio laid out a plethora of events for the students to participate in, that ranged from core engineering fields, research to entrepreneurship. The events targeted their critical-thinking and analytical abilities as well as the more optimistic notion of combining their entrepreneurial ideas into building a wonderful future.

The following events were organized in the 3-day extravaganza of Cognitio'22 :

- QURIOSITY
- RADIATION
- PLACE STATION
- BATTLE OF BUREAUCRATS
- ASSEMBLAGE
- CANSYS
- SHOOT AT SIGHT
- DICTUM SYMPOSIUM
- CONUNDRUM
- ELEVATOR PITCH
- OPEN STAGE



> THE FIRST HAND EXPERIENCE IS GENERALLY EXPERIENCED BY THE ONES WHO DARE TO LEAP AND JUMP INTO THE BOWL OF UNCERTAINTIES

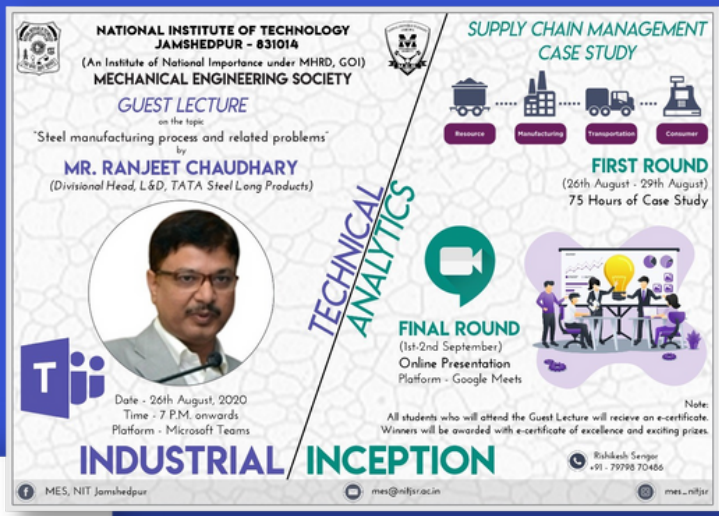
Ideas are what we can't fathom. They can only be sustained by sharing, with these ideals we welcomed our guest lecturers over the podium of our humble abode of NIT Jamshedpur Mechanical Engineering Society's fest Cognitio'22. They shared their brilliant ideas on a variety of topics and pushed brilliant minds toward the direction that they may attain in the future.

On day one, guest lecturer, Vikas Kumar was invited who is an expert in his field, turned from an employer to an entrepreneur by following his passion and turning it into something which he loves. As he not only gave everyone enlightenment about what everything should be done to achieve one's dreams but also gave a viable idea about what an individual who wants to excel needs to portray in his or her character.

On day three we invited the guest lecturer, Mrs. Ranjhana Mishra who gave us great insights into her thoughts and how one should be an ideal entrepreneur, she was a remarkable personality, and this was followed by the closing ceremony and prize distribution.

We saw huge participation not only from the Mechanical Engineering Department but also from the Production and Industrial Engineering Department students and showed great enthusiasm in every event. They turned every lesser-known opportunity into what you can grab in front of the crowd. Every participant showed tremendous growth in his or her personality while performing what was necessary to win the competitions. Cognitio not only portrayed the people who are capable of doing wonders but also showed us the people who are going to be the pillar of the future.

INDUSRTIAL INCEPTION



Being a mechanical engineer, it takes a lot to analyze how industries are going to proceed and how they are going to help in the changing of society. So, the manufacturing sector plays a great role in a Mechanical engineer's career. Thus, the mechanical engineering society organized a competition named industrial inception.

Industrial inception focused on a deep understanding of steel manufacturing industries and also supply chain management (SCM). Both of these sectors are very important for the core as well as non-core companies example, Tata Steel, Saint Gobin, ZS associates, etc.

This was a team event consisting of two to three members which then spanned over three days of programs. Followed by the guest lecture by Mr. Rajiv Chaudhary Divisional Head, L&D Tata Steel Long Products, on the topic of steel-making problems and processes it. A 75-hour-long SCM case study-solving competition was followed by a case presentation by qualified teams.

This not only formed a great benchmark for all the Mechanical Engineers who took part in it as it not only triggered their thinking capabilities but also involved their skills which created them to find innovative solutions to different problems addressed.

GUEST LECTURE

" This life is a busy world, one cannot provide sufficiently just by doing a nine to five, and instead of becoming an employee, one should become an employer. "

With this ideology, MES invited the guest lecturer Mr. Vikas Kumar who was a Senior Service Delivery executive with 25 years of experience in Client-Facing roles with excellent achievements at a global level.

Service Delivery across diverse areas and setting up a robust infrastructure for Enterprise Technologies and Solutions. Proven abilities in enhancing business profitability and cost optimization, setting up Centers of Excellence, winning repeat projects from clients at the global level, and building trusted relationships with stakeholders. A people-centric professional with extensive cross-cultural exposure, having led large teams and achievements in setting up delivery teams internationally. A strategic thinker and a cross-functional expert, with expertise in leading and managing multi-million dollar projects internationally (US, UK, and ASEAN) with a solutions approach, deftly managed large engagements, including Business Development and marketing strategies. Good experience in selling service offerings at CXO levels.

In 2021, in a paradigm shift, he quit his flourishing IT job and started a start-up in two areas: FMCG & Software product development. With this enormous pile of experience, Mr. Vikas Kumar not only addressed the Mechanical engineering department but also shared his valuable experience in the field of entrepreneurship.

PLACEMENT E-XPRESS

Placement e-Xpress is an initiative taken by the Mechanical Engineering Society to make students aware of the recruitment process of various companies.

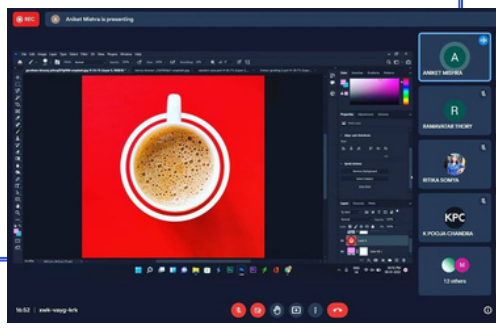
It includes an already placed student talking about his/her experiences on the placement drive of a specific company. It helps the upcoming batches in preparing for companies specifically catering to their interests.

It delves deep into the preparation strategy and books used by them to become successful in cracking the interviews and aptitude tests.

It highlights all the recruitment rounds in great detail and important advice and tips for students to prepare for the same.

WORKSHOPS

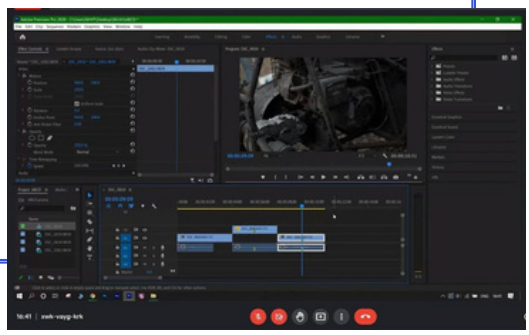
With the moving world, demands for the skills of techno-crats also increase. So, to increase the technical knowledge of students, the Mechanical Engineering Society keeps organizing workshops on different photo editing and video editing software like Adobe Photoshop, Premiere Pro as well as 3-D designing and analysis software.



Adobe Photoshop

Photoshop and Premiere Pro are amongst the two most widely used programs for creating and editing visual content and being able to use them is a universally acknowledged skill worth knowing, was taught by personnel of great expertise.

Mechanical Engineering Society organized a three-day workshop (8th, 10th, and 11th Jan 2022) on Photoshop and Premiere Pro for Mech 2k20 and 2k21 students. The sessions were taken by Nihit Raj (President, MES) and Aniket Mishra (Joint Secretary, MES). Students were briefed about the importance and need of these skills and how to use them as a beginner.



Adobe Premiere Pro

A workshop on the use of SolidWorks and Ansys was organized. Students were briefed about the tools and components of these programs. From designing a 2-D model to joining members of a 3-D model was taught. This software altogether creates a great package required for leveling up the skill set one has. Hence, these sessions played a crucial role in scaling up one's value to an asset.

GROUP DISCUSSIONS

Group discussions are what bring everyone closer, to other people's ideals, what they think and what they want. With this in mind it was observed that there were brilliant thoughts and ideas present among us. So, the Mechanical Engineering Society has always conducted a group discussion for every batch. It gave them a gist of what and how a picture of a scenario should be depicted in front of a group and how a person should acknowledge what the other person thinks.

The group discussions organized became a great success bringing the branch mates closer and bringing them closer to the ideation of the success.

The topics encompassed the various problems in mechanical engineering, the technological world, geopolitical scenarios, and socio-economic causes. Hence the group discussion not only introduced us to the bright minds in the mechanical engineering department but also made us aware of their perspective on how society will be changed if they are the leaders or delegates.

INTERNSHIP STATISTICS

Internships and Training play a major role in getting the real-time exposure of working and challenges in the industries of various sectors. A total of 12 students from 2019 Batch (3rd Year) got Internship Offers from various companies. Below is the detailed statistic of the Internship Offers-

Sl no.	Name of Company	No. of Selects
1	TATA STEEL	5
2	Saint Gobains	2
3	Bajaj	1
4	ExxonMobil	1
5	Trademo	1
6	Fractal Analytics	2

PLACEMENT STATISTICS

The placement season at NIT Jamshedpur commences from last July to June of next year. This year Mechanical engineering branch had 98% placements. Below is the detailed statistics of the placements-

No. of Students	**99**
No. of Eligible Students	**95**
No. of Interested Students	**93**
No. of Students Placed	**87**
No. of Offers	**126**

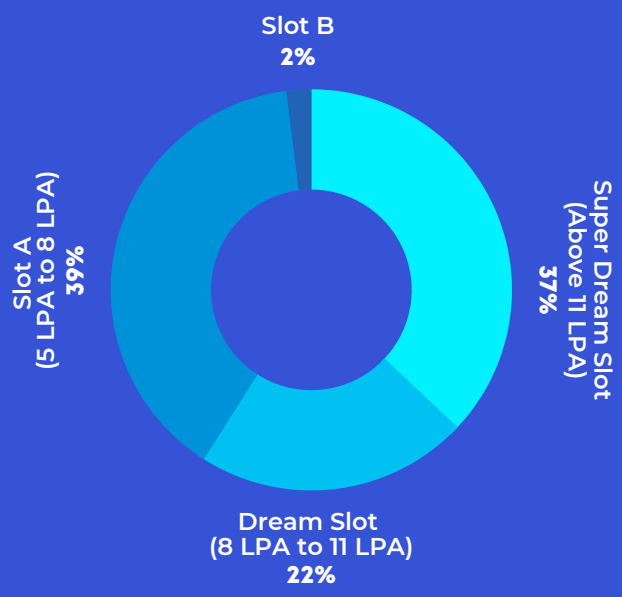
Name of Company	No. of selects
Adani Enterprises	1
Aditya Birla Group	6
ALSTOM	2
AMNS	1
Axxela	1
Azure power	2
Bajaj Auto Ltd.	1
Byjus	2
Capegemini	1
Celebal technologies	1
CGI	1
Cogoport	1
Cubastion	1
Deloitte	7
EIL	4
Ericsson	1
Ernst & young	1
EXL	5
ExxonMobil	3
EY	1
Flipkart	2
Fractal Analytics	1
Futures First	1
Genpact	3
ICICI Bank	1
Increff	1

PLACEMENT STATISTICS

Name of Company	No. of selects
ISWPL	1
JSW	1
Kantar	1
L&T	5
Linde	2
Maruti Suzuki	3
Math Company	2
Merilytics	1
O9 Solutions	1
Oracle	1
OYO Rooms	1
Philips Carbon Black Ltd.	2
Piramal Glass	1
Polestar solutions and services India Pvt Ltd	1
Reliance Industries ltd	2
RoboMQ	1
Royal Enfield	2
Tata Advanced system	1
Tata Motors	3
Tata Projects	4
Tata Steel	11
Tata Steel Long Products Ltd.	1
TCS	1
Tiger analytics	1
Tredence Analytics	4
Undostress	1
Vedanta limited	4
Wipro	7
Yash Technology	3
Zepto	1
ZF Wabco	2
ZS Associates	2

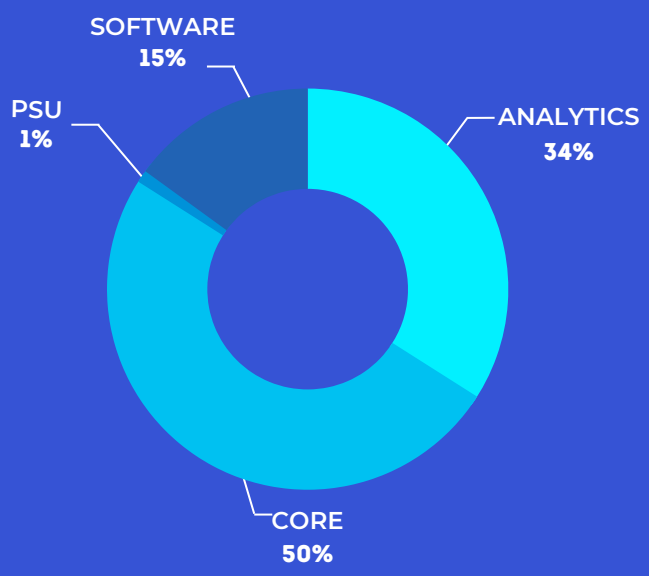
PLACEMENT STATISTICS

SLOT-WISE PLACEMENT :-



SLOT	No. of Students
Super Dream Slot (Above 11 LPA)	33
Dream Slot (8 LPA to 11 LPA)	19
Slot A (5 LPA to 8 LPA)	35
Slot B	2

SECTOR-WISE PLACEMENT :-



SECTOR	No. of Students
ANALYTICS	32
CORE	48
PSU	1
SOFTWARE	14

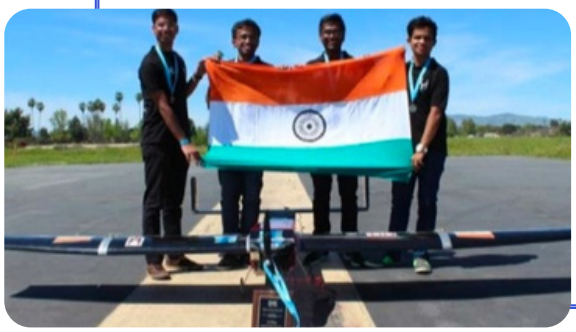
TECHNICAL TEAMS

Team Daksh

BAJA SAE 2019
1st - Go Green Event
12th - Baja Virtuals
BAJA SAE 2021
9th - Virtual Static Event
36th - Overall

Drift Racing Team

Formula Imperial 2021
1st - Design report
4th -Overall



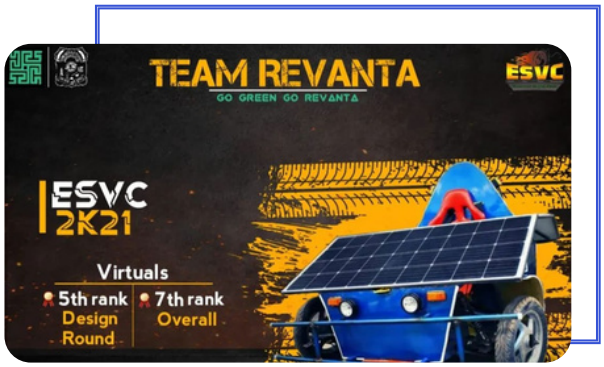
Team Phoenix

SAE India 2020
4th - Design Report
6th - Overall
SAE International 2021
8th - Design Report
SAE India 2021
5th - Overall

Team Rays

ELECTRIC SOLAR VEHICLE CHAMPIONSHIP-2020
4th - Endurance Race
8th - Overall

Team Revanta



ESVC 2021
5th - Design
7th - Overalll

Team Ecoriders

ASME E-FEST ASIA PACIFIC-2021
1st - Safety
2nd - Aesthetics
2nd - Design and Innovation
17th - Overall

STUDENT'S FEEDBACK

MES presents a leveled playground for the growth of us mechanical engineers. It not only gives us an array to evolve but also provides us multidimensional skills and professional tools to grow.

- Ankit Kumar (2019UGME062)

Since its inception, M.E.S. has been wielding the responsibility to nurture students on industrial as well as interpersonal grounds by providing them with a plethora of opportunities to test their competencies and embark upon their endeavors toward success in life. Being a part of the committee I feel proud and wish to see society achieve a new zenith of success through the collaborative efforts of students and faculties. This not only provides everyone with excellent growth opportunities but also a dynamic platform to thrive.

- Adarsh Singh (2019UGME040)

Being a fresher in the Mechanical Engineering department MES created some unrest in the beginning. M.ES. gave them a perfect opportunity to come out of their shell. The events organized by ME.S. and the guest lectures that we attended were inspiring and informative. It is remembered that the events in Cognitio were something out of the box and were very exciting. Shoot-at-sight and Assemblage were splendid events. M.E.S. also gave me a chance to learn CATIA, Photoshop, etc, which are pragmatic for a technical student

- Pratik Saurav (2019UGME060)

NIT Jamshedpur has a big place in our hearts and so is the Mechanical Engineering Society Throughout the session of 2018-19, we have witnessed varied events that M.E.S. organized and it was a privilege to be a stakeholder of the same. Events like Pre Placement Drive. Soft Skills awareness and COGNITIO were the main highlights among them. The events under COGNITIO dealt with industrial matters and were very promising. In M.ES, we have seen students from being in oblivion and ignorant to become cognitive and involved in conscious intellectual activities.

- Sonu Meena (2020UGME038)

The events being organized by MES give us opportunities to put our skills to the test in various diverse domains, which eventually help us to have a critical thinking intellect. Not just for the sake of winning competitions, the results from these events also improve our techno-managerial skills.

- Vikash Kumar (2021UGME042)

ALUMNI'S FEEDBACK

The students' enthusiasm and zeal for broadening the scope of M.E.S. activities are admirable. The annual festival (COGNITIO) of the industry-oriented department is underway. I am honored to be a member of this family.

-Shubhashish Mohankar(2016-2020)

M.E.S., being one of the oldest societies functioning at NIT Jamshedpur, brings a lot of events and this helps to explore our areas of interest through branch fest (Cognitio 19), and through individual events like Mock Placement Interviews. It helps with exposure, confidence, and personality development.
which is critical in today's business world.

- Chandan kumar (2012-2016)

M.E.S. offers an excellent opportunity to cultivate a skilled mindset and learn through various workshops. It is an excellent platform for displaying technical knowledge. COGNITIO, the department's annual festival, is a fantastic initiative spearheaded by M.E.S.

- Ayush Gaurav(2018-2022)

Events organized by MES, throughout the session were informative as well as fun-filled. It provided a platform for showing our creativity and talent. The best part is the events organized had something for everyone, from automobile enthusiasts to creative designing and applying theoretical knowledge to practical applications.

- Aditya (2011-2015)

M.E.S., a society well managed by its office bearers and guided by faculty members, serves the purpose of overall development and provides an insight into the corporate world through a plethora of technical events, pre-placement drives, industrial visits, guest lectures, and COGNITIO. This society is a complete personality development package essential for a successful life ahead.

- Himanshu Pathak 2013-2017

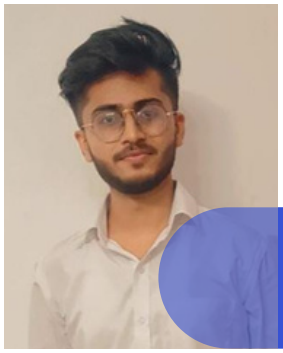
ACHIEVEMENTS

ABHISHEK KUMAR - 2018
261 AIR GATE 2022 (ME)

VAIBHAV VIDYAWARDHAN - 2018
417 AIR GATE 2022 (XE)

NIMISHA PANDEY -2018
99.89%ILE (CAT 2021)

SARTHAK SAHU - 2018
95.20 %ILE (CAT 2021)
98.9491 %ILE (XAT 2021)



ARSALAN KHAN - 2K19
99.77 %ILE (CAT 2022)

PRESS ARTICLES

THE AVENUE MAIL

NIT Jamshedpur: Six day SERB-sponsored workshop concludes

Mail News Service

Jamshedpur, Sep 30: Mechanical Engineering Department of National Institute of Technology, Jamshedpur, organized a six day long SERB-Sponsored workshop on Slurry Flow Characteristics and Transportation in Mineral Processing from 25th September to 30th September.

Chief guest D B Sundara Ramam ,Vice President, Raw Material, Tata Steel, Jamshedpur, guest of honour Professor, B.K.Gandhi, Professor, Mechanical and Industrial Engg IIT Roorkee and Director of NIT Jamshedpur Prof. Karunesh Kumar Shukla and Prof Sanjay inaugurated the workshop and unveiled the souvenir. Course Coordinator Dr. Satish Kumar said more than 72 faculties, research scholars of the different disciplines from all over India participated in the workshop. During the workshop, expert lectures were given by national and international scientists and academicians. Different experts covered the different topics of the recent development on Slurry Flow Characteristics and Transportation in Mineral Processing with help of application/case studies from a variety of real-world engineering problems. In this workshop, experts have explored the different area of research, participants can choose for future research.

On the last day, ceremony was concluded in the presence of the guest of honor Registrar Col (Dr.) Nitish Kumar Rai, Chief Guest Deputy Director Prof. Ram Vinay Sharma, Head of Department Prof. Sanjay and other faculties and participants. On this occasion, Deputy Director, congratulated the organizing committee of this SERB Karyshala , especially to course coordinator, Dr. Satish Kumar , Associate Professor, Mechanical Engineering Department. The Registrar Col (Dr.) Nitish Kumar Rai, Deputy Director Prof. Ram Vinay Sharma, Head of Department Prof. Sanjay and Course Coordinator Dr. Satish Kumar distributed the workshop certificates. (W-at)

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Mechanical Engineering Department of National Institute of Technology Jamshedpur was in newspapers, for its 6 day Karyashala on Slurry Transport of mining products sponsored by DST-SERB (5lacs) Coordinator Dr. Satish Kumar.

सुशांत झा व निक्की कुमारी ने जैवलिन थ्रो में गोल्ड जीत कर राष्ट्रीय स्तर पर बनाया रिकार्ड

जयपुर व सिल्चर में आयोजित अखिल भारतीय इंटर एनआईटी टूर्नामेंट में एनआइटी जमशेदपुर के छात्रों ने लहराया परचम

आदित्यपुर, 2 दिसंबर (रिपोर्टर) : गत 17 से 20 नवंबर तक जयपुर और सिलचर में आयोजित अखिल भारतीय इंटर एनआईटी टूर्नामेंट 2022 में एनआईटी जमशेदपुर के छात्र छात्राओं ने संस्थान का नाम रौशन करते हुए शानदार जीत दर्ज की है. इधर, आज संस्थान में सभी विजेता खिलाड़ियों को संस्थान के निदेशक डॉ करुणेश कुमार शुक्ला और कुलसचिव कर्नल डॉ निशीथ कुमार राय द्वारा भव्य व शानदार स्वागत किया गया. इस मौके पर निदेशक डॉ शुक्ला ने घोषणा किया कि राष्ट्रीय स्तर पर आयोजित अन्य खेल प्रतियोगिताओं में भी छात्रों के हिस्सा लेने के लिए संस्थान में विशेष सेल का गठन किया जायेगा. उक्त टूर्नामेंट में संस्थान के कई छात्र-छात्राओं ने राष्ट्रीय स्तर पर मेडल जीतकर संस्थान का गौरव बढ़ाया है. विदित है कि एनआईटी जयपुर एवं सिलचर में आयोजित तीन दिवसीय टूर्नामेंट में देशभर के 21 एनआईटी के लगभग एक हजार छात्र छात्राओं ने विभिन्न खेल प्रतिस्पर्धा में हिस्सा लिया था, जिसमें एनआईटी जमशेदपुर के सुशांत झा (पुरुष वर्ग) एवं निक्की कुमारी (महिला वर्ग) में जैवलिन थ्रो में गोल्ड मेडल जीत कर राष्ट्रीय स्तर पर रिकॉर्ड बनाया. संस्थान के प्रोडक्शन इंजीनियरिंग के छात्र साकेत कुमार ने 200 मीटर दौड़ में जहां सिल्वर मेडल हासिल किया, वहीं एस राजवीर, उपकार महतो, साकेत कुमार व आदित्य सोनकर ने 400 गुना 100 मीटर रिले दौड़ में सिल्वर मेडल पर कब्जा किया.

टूर्नामेंट में कई खेलकूद प्रतियोगिताएं की गई थी आयोजित : इस टूर्नामेंट में शतरंज, टेबल टेनिस, बैडमिंटन व दौड़ प्रतियोगिता के साथ-साथ कई अन्य खेलकूद प्रतियोगिताएं आयोजित की गई थी. शतरंज प्रतियोगिता में एनआईटी जमशेदपुर की प्रेरणा पान ने गोल्ड मेडल जीता. वहीं लॉन टेनिस में सुरभि आनंद, उन्नति जायसवाल, अमीषा महतो व सुरभि पांडे ने ब्रोंज मेडल हासिल किया. यहां बता दें कि अखिल भारतीय इंटर टूर्नामेंट में वृहत स्तर पर पहली बार एनआईटी जमशेदपुर के 84 छात्र-छात्राओं ने हिस्सा लिया. इसमें टीम मैनेजर के रूप में सूरज कुशवाहा एवं कुंदन कुमार साथ में थे. वहीं कोच के रूप में विभास कुमार सिन्हा व उज्जवल पाठक टीम का नेतृत्व कर रहे थे.

Proud to share the success of Fifteen students of National Institute of Technology Jamshedpur at the Inter-NIT Sports Meet at NIT SIlchar and Malaviya National Institute of Technology Jaipur where National Institute of Technology Jamshedpur had sent a 84 member students contingent. These winners were honoured by the Director National Institute of Technology Jamshedpur.

दैनिक भास्कर जमशेदपुर 28-10-2022

एनआईटी जमशेदपुर में नए शोध पर चर्चा

जमशेदपुर | एनआईटी, जमशेदपुर के मेकेनिकल इंजीनियरिंग विभाग के पीएचडी विभाग की ओर से संगोष्ठी का आयोजन किया गया। इसमें आईआईटी दिल्ली के प्रमुख प्रो. संजीव सांघी मुख्य अतिथि के तौर पर मौजूद थे। संगोष्ठी में डॉक्टरेट के उम्मीदवार नौशाद हसीन खान ने अपने शोध का बचाव किया। उनका शोध क्षेत्र जटिल तरल पदार्थ है। उन्होंने नैनो सामग्री का उपयोग कर गर्मी के प्रवाह में सुधार के लिए एक सरल विधि का प्रस्ताव रखा। शोध की देखरेख प्रो. एमके पासवान और डॉ एमए हसन ने की। विभागाध्यक्ष प्रो. संजय ने अतिथियों का स्वागत किया। प्रो. सांघी ने शोध कार्य की सराहना की।

इंस्पायर अवॉर्ड विज्ञान प्रदर्शनी के लिए जिले के 1700 छात्रों ने किया आवेदन

जमशेदपुर | इंस्पायर अवॉर्ड के तहत जिले के 1700 छात्रों ने आवेदन किया है। इनमें 20 प्रतिशत छात्रों का चयन जिला स्तरीय विज्ञान प्रदर्शनी के लिए किया जाएगा। चयनित छात्रों को केंद्र सरकार की ओर से मॉडल बनाने के लिए 10-10 हजार रुपए दिए जाएंगे। यह प्रदर्शनी दिसंबर या जनवरी में आयोजित होगी। जिला स्तर पर चयनित छात्रों को राज्यस्तरीय प्रतियोगिता में शामिल होने का मौका मिलेगा। राज्यस्तर पर चयनित छात्रों को राष्ट्रस्तरीय प्रदर्शनी में शामिल होने का मौका मिलेगा।

स्कूल शिक्षकों के स्थानांतरण की फाइनल सूची हो रही तैयार

जमशेदपुर | स्कूली शिक्षा एवं साक्षरता विभाग के निर्देश पर प्राइमरी, मिडिल व हाईस्कूलों के शिक्षकों के स्थानांतरण की फाइनल सूची तैयार हो रही है। छठ के बाद इसे अंतिम रूप दिया जाएगा। वर्तमान में जोन-1, जोन-2 व जोन-3 में छह वर्ष से कार्यरत शिक्षकों व सरप्लस शिक्षकों का तबादला होना है। इसके लिए विभाग की ओर से मांगी गई आपत्ति व सुझाव की तिथि भी समाप्त हो गई है। निर्धारित तिथि तक 12 शिक्षकों ने सुझाव दिया।

Mechanical Engineering Department, NIT Jamshedpur of National Institute of Technology Jamshedpur has recommended award PhD to Mr. Naushad Khan today who did research on "Rheological Properties of Nano-Fluids" with applications in development of newage lubricants and Coolants for Advanced application.

तकनीक में विशेषज्ञ बन पूरी कर सकते हैं देश की जरूरत : राय

कार्यशाला

- एनआईटी में औद्योगिक आत्मनिर्भरता पर हुई कार्यशाला
- रिफ्रैक्ट्रीज उद्योग की संभावनाओं पर की गई चर्चा

जमशेदपुर, प्रमुख संवाददाता। भारतीय सिरेमिक सोसाइटी की एनआईटी छात्र इकाई की ओर से गुरुवार को संस्थान परिसर में भारतीय रिफ्रैक्ट्रीज उद्योगों के लिए चुनौतियों और अवसर विषय पर एक दिवसीय राष्ट्रीय कार्यशाला का आयोजन किया गया। कार्यशाला का उद्देश्य देश की आत्मनिर्भरता के प्रति रिफ्रैक्ट्रीज उद्योगों के महत्व के बारे में जागरूकता पैदा करना था।

रिफ्रैक्ट्रीज को सभी उच्च तापमान प्रसंस्करण (फर्नेस) उद्योगों की रीढ़ माना जाता है, जिसमें लोहा और इस्पात, सीमेंट, एल्यूमीनियम, तांबा, कांच और सिरेमिक आदि शामिल हैं। इसलिए उन्हें मजबूत करना देश की अर्थव्यवस्था में सुधार के लिए बाध्य है। मौके पर जिरकार रिफ्रैक्ट्रीज लिमिटेड अहमदाबाद के संस्थापक एवं प्रबंध निदेशक पीचएल राय समारोह के मुख्य अतिथि थे। अपने संबोधन में उन्होंने इस क्षेत्र में विशेषज्ञ बनाने की आवश्यकता पर जोर दिया।

गुरुवार को एनआईटी में औद्योगिक विकास कार्यशाला में भाग लेते अतिथि।

कहा कि विशेषज्ञ बनने पर ही हम देश की जरूरतों की समस्याओं का समाधान कर सकेंगे। इंडियन सिरेमिक सोसाइटी के अध्यक्ष डॉ. ललित कुमार शर्मा सम्मानित अतिथि थे। उन्होंने इस क्षेत्र में जागरूकता बढ़ाने में एनआईटी जमशेदपुर के प्रयास की सराहना की। एनआईटी निदेशक प्रो. करुणेश कुमार शुक्ला ने स्वागत भाषण दिया और संस्थान के सभी हितधारकों से विचार-विमर्श से लाभान्वित होने की अपील की। प्रो. भारत भूषण झा ने हमारे देश में रिफ्रैक्ट्रीज अनुसंधान से संबंधित मुद्दों पर बात की।

प्रो. आरवी शर्मा (उपनिदेशक) और कार्यक्रम के अध्यक्ष तथा कार्यक्रम के संयोजक डॉ. एसके वाजपेयी ने भी बात की। तकनीकी सत्र के दौरान टाटा स्टील के प्रमुख (रीफ्रैक्ट्रीज) बृजेंद्र सिंह, सेल बोकारो स्टील प्लांट के मुख्य महाप्रबंधक वेद प्रकाश उपाध्याय ने विभिन्न पहलुओं पर बात की।

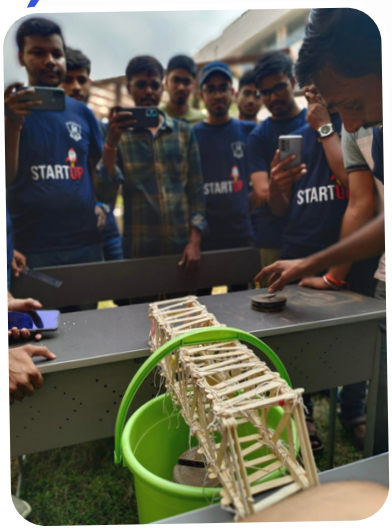
National Institute of Technology Jamshedpur hosted a One day Workshop on Industrial Ceramics, ceramic industry, ceramic design, ceramic coating in association with Indian Ceramic Society and The American Ceramic Society to promoted development of high value Ceramic products.

INCAM 2022

5th Indian Conference On Applied Mechanics (INCAM 2022) November 11-13, 2022. National Institute of Technology Jamshedpur

INCAM 2022 is the fifth in the series of INCAM conferences, continuing from previous successful editions INCAM 2013, INCAM 2015, INCAM 2017, INCAM 2019 held at IIT Madras, IIT Delhi, MNNIT Allahabad and IISc Bangalore respectively. INCAM 2022 was organized by the Department of Mechanical Engineering, National Institute of Technology Jamshedpur. INCAM 2022 provided a technical platform for discussion among researchers in the broad area of Applied Mechanics. The conference featured plenary and invited lectures from experts, oral presentations, poster sessions, in offline mode.

GALLERY



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PROFESSORS OF MECHANICAL ENGINNERING DEPARTMENT

"A teacher affects eternity,
He can never tell where his influence stops"

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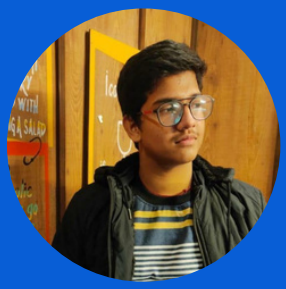

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नेताजी सुभाष चंद्र बोस का कथन है कि अच्छा चरित्र निर्माण करना ही छात्रों का मुख्य कर्तव्य होना चाहियें।

चरित्र निर्माण ना केवल व्यक्तिगत रूप से आवश्यक है परंतु यह हमारे सामाजिक समुन्नति का भी प्रतिभागी है परंतु चरित्र निर्माण चंद किताबों को पढ़ने से नहीं होता इसके लिए आवश्यक है कि हम जीवन के अनुभवों से अवगत हो। यह काम तभी होगा जब हम एक संगठन या समाज में एक-दूसरे के सह-विकास में भागीदार हो क्योंकि मनुष्य एक सामाजिक प्राणी है।हमारे विश्वविद्यालय स्तर पर जब मैं इन्हीं विषयों को यांत्रिक अभियांत्रिकी विभाग के संदर्भ में देखता हूं तो मुझे यांत्रिक अभियांत्रिकी समाज **(MES)** का औचित्य स्पष्टता से समझ आता है।सह-पाठयक्रम गतिविधियाँ हमारे व्यक्तित्व के सामंजस्यपूर्ण विकास को सुनिश्चित करती है एवं अध्ययन के समकक्ष ही अत्यंत आवश्यक हैं। **MES** न केवल इस बात को दृढ़ता से मानती है बल्कि यह सुनिश्चित भी करती है कि वह इसे क्रियान्वित भी करती हैं। समय-समय पर **MES** का यह प्रयास रहता है कि वह हमारे लिए विभिन्न आयोजनों के माध्यम से ऐसा करें। हाल में यांत्रिक अभियांत्रिकी विभाग का वार्षिकोत्सव **COGNITIO** बहुत सफल रहा। इसमें न केवल तकनीकी शिक्षा के व्यावहारिक कार्यक्रम थे परन्तु व्यक्तिगत विकास के लिए समूह चर्चा, अभ्यास परिक्षण और मनोरंजन के कार्यक्रम भी थे।

हितोपदेश में बड़ी वास्तविकता के साथ कहा गया है-

अल्पानामपि वस्तूनां संहतिः कार्यसाधिका ।
तृणैर्गुणत्वमापन्नैर्बध्यन्ते मत्तदन्तिनः ॥

छोटी चीजें भी समूह में बड़ा काम सिद्ध कर सकती हैं। जैसे घास के छोटे टुकड़े इकट्ठा करके मत्त हाथी भी बँधा जा सकता है। यांत्रिक अभियांत्रिकी समाज हमारी एकता का भी प्रतिबिंब है। जिस प्रकार शरीर से छाया नहीं दूर की जा सकती है, उसी प्रकार **MES** यांत्रिक अभियांत्रिकी विभाग का अभाज्य अंग है।

अतः मैं यह विश्वास के साथ कह सकता हूं कि **MES** इसी प्रकार सीनियर्स के मार्गदर्शन में तथा सभी सहपाठियों और जूनियर्स के अथक प्रयासों से यूं ही आगे भी छात्रों के चरित्र निर्माण में अग्रणी भूमिका निभायेगा।

"

-मृत्युंजय कश्यप
2021UGME098