



NEWS LETTER

MECHANICAL ENGINEERING

2023-2024



KSSEM
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)



KSRIF



ABOUT THE DEPARTMENT



WITH THE INCEPTION OF KS SCHOOL OF ENGINEERING AND MANAGEMENT, DEPARTMENT OF MECHANICAL ENGINEERING WAS STARTED IN THE YEAR 2010 WITH A VISION OF DELIVERING THE SOCIETY A WORLD CLASS UNDER-GRADUATE AND GRADUATE PROGRAMME IN ENGINEERING STUDIES. STUDENTS ENTER THE MECHANICAL ENGINEERING BRANCH IN THEIR SECOND YEAR (THIRD SEMESTER) AFTER COMPLETING ONE YEAR (TWO SEMESTERS) OF GENERAL ENGINEERING STUDIES.

THE MECHANICAL ENGINEERING CURRICULUM IS DESIGNED TO PROVIDE A WIDE RANGE OF WORLD CLASS OPPORTUNITIES IN MECHANICAL ENGINEERING DOMAIN. THE STRUCTURE OF THE PROGRAM HAS A COMBINATION OF HANDS-ON ACTIVITIES IN ADDITION TO THE TRADITIONAL ACADEMIC TEACHING FOR FACILITATING STUDENTS A BALANCE BETWEEN THE PRACTICAL APPROACH AND ANALYTICAL SKILLS REQUIRED TO BECOME A SUCCESSFUL ENGINEER. IN ADDITION TO THE COURSES OFFERED IN MECHANICAL ENGINEERING, STUDENTS ARE ALSO FACILITATED WITH A CHANCE TO ELECT COURSES OF THEIR CHOICE FROM OTHER PROGRAMMES LIKE ELECTRONICS AND COMMUNICATION ENGINEERING, ELECTRICAL AND ELECTRONICS ENGINEERING, COMPUTER SCIENCE, AND CIVIL ENGINEERING.



THE LABORATORY EXPERIENCES REINFORCE IN THEM THE CONTENT PRESENTED IN COURSE AND PROVIDES THEM AN OPPORTUNITY TO INVOLVE THEMSELVES INDIVIDUALLY IN THE PRESENCE OF FACULTY AND TECHNICAL SUPPORT STAFF. AN EXPOSURE TO CURRENT INDUSTRIAL SCENARIO IS PERIODICALLY ADMINISTERED THROUGH CONFERENCES, WORKSHOPS, SEMINARS, AND INDUSTRIAL VISITS. IN ADDITION, FACULTY MEMBERS HAVE PROVEN THEIR COMPETENCES BY GUIDING STUDENTS ON LIVE PROJECTS THAT WERE SPONSORED BY RENOWNED RESEARCH INSTITUTES. THE RESEARCH AND DEVELOPMENT ACTIVITIES IN THE DEPARTMENT ARE WELL BACKED BY THE ON-GOING RESEARCH ACTIVITIES.

MECHANICAL ENGINEERING DEPARTMENT AT KSSEM IS ESTABLISHED FOR BRINGING OUT NOVEL IDEAS, DEVELOP ORIGINAL RESEARCH, APPLY YOUR KNOWLEDGE IN INDUSTRY OR FIND A FLEXIBLE JOB THAT FITS WITH THE STUDENT PERSONAL GOALS/FAMILY GOALS. A DEGREE IN MECHANICAL ENGINEERING WILL PLACE THE STUDENT ON A PATH TO A RIGHT AND BRIGHT FUTURE.

1. CAREER GUIDANCE: INSIGHT FROM LEADERS

"LEADERSHIP PERSPECTIVES AND INSIGHTS OFFERED BY PROMINENT FIGURE DR. SADANANDA MAIYA, FOUNDER OF MTR(MAIYAS) FOR KS GROUP OF INSTITUTIONS. ORGANIZER: MECHANICAL DEPARTMENT, KSSEM, BENGALURU. VENUE: SEMINAR HALL, KSSA, TIME: 2:00PM TO 3:30PM." 2023-11-22








K.S Group of Institutions (R) 1952
K.S SCHOOL OF ENGINEERING & MANAGEMENT
No.15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109
Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC


Insight From Leaders


by



Dr.Sadananda Maiya
Founder of MTR (Maiyas)

 Date: 24th Nov, 2023 2.00 pm

 Venue : KSSA SEMINAR HALL



SCAN ME

Dr. BALAJI.B
PROF. & HOD
MECHANICAL ENGINEERING

Dr.K Rama Narasimha
Principal & Director
KSSEM

Dr.D R Swamy
Executive Director
KSRIIF

Dr.K V A BALAJI
CEO
KSGI



2. TECHNICAL TALK-INDUSTRIAL SAFETY

"A TECHNICAL TALK ON 'INDUSTRIAL SAFETY' HAS BEEN ORGANIZED BY DEPARTMENT OF MECHANICAL ENGINEERING, KSSEM, BENGALURU. SPEAKER:MR. MANGESH G. JADHAV (DEPUTY MANAGER-SAFETY TOYOTA KIRLOSKAR AUTO PARTS PVT LTD BIDADI, RAMANGARA, KARNATAKA) VENUE: KSSA SEMINAR HALL: TIME: 11:00 AM TO 12:00 PM" 2023-12-30



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Mallasandra, Kanakapura Road, Bengaluru-560109

TECHNICAL TALK ON "INDUSTRIAL SAFETY"



Speaker
Mr. Mangesh G. Jadhav
Deputy Manager-Safety
Toyota Kirloskar Auto Parts Pvt Ltd
Bidadi, Ramangara, Karnataka



Organized by
Dept. of Mechanical Engineering
In association with
KS Research and innovation foundation
KSSEM Idea Club
Institution Innovation Council

**30 December 2023**

**11 am -12 pm**

**KSSA seminar hall**



REGISTER HERE



3. INDUSTRIAL VISIT

"AN INDUSTRIAL VISIT IS SCHEDULED FOR JANUARY 11, 2024, AIMED AT OFFERING PRACTICAL EXPOSURE TO REAL-WORLD OPERATIONS AND PROCESSES RELEVANT TO THE ACADEMIC CURRICULUM FOR 5TH-SEMESTER MECHANICAL ENGINEERING STUDENTS."

2024-01-11





5. INNOVATION CIRCLE AT TOYOTA KIRLOSKAR AUTO PARTS – DST, GOI, PROGRAM

INNOVATION CIRCLE PROGRAM AT TKAP, BENGALURU, BY DR PRAVEN ARORA, ADVISOR DST & MR. TABREZ AHAMED, HEAD-TKAP & DR KVA BALAJI, CEO, KSGI IN ASSOCIATION WITH KSRIF AND MECHANICAL DEPARTMENT

**ABLE TO CONNECT WITH 40 INDUSTRIES, USING IT FOR
INDUSTRIAL VISITS
TECHNICAL TALKS
MOU'S
FUNDED PROJECTS**



6. MOTIVATIONAL TALK

"DEPARTMENT OF MECHANICAL ENGINEERING, KSSEM IS ORGANIZED MOTIVATIONAL TALK ON "FAILURE IS NOT YOUR DREAM" A SUCCESS PROCESS, BY DR. JAGANATH RAO, FOUNDER(DR JAGANATH RAO'S SKILL& WILL DEVELOPMENT LLP,BANGALORE, IN ASSOCIATION WITH KSRIF. DATED ON 4TH JUNE 2024 TIME: 2:00PM-3:30PM VENUE: KSSA SEMINAR HALL" 2024-06-04



Kammavari Sangham®, K S Group of Institutions

K S SCHOOL OF ENGINEERING & MANAGEMENT

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Mallasandra, Kanakapura Road, Bengaluru-560109

MOTIVATIONAL TALK ON "FAILURE IS NOT YOUR DREAM" A SUCCESS PROCESS



Speaker

DR.JAGANATH RAO

Founder

Dr. Jaganath Rao's Skill &
Will Development LLP ,

Bengaluru, Karnataka

Organized by

Dept. of Mechanical Engineering



04 June 2024



2 pm -3:30 pm



KSSA seminar hall

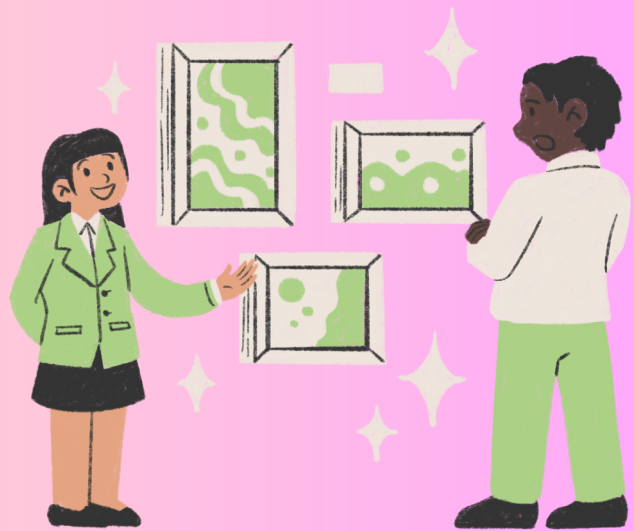
In association with

KS Research and innovation foundation & Institution Innovation Council



7. TECHNICAL TALK-POTENTIALS OF DIGITAL BRANDING

"THE DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH KSRIF IS ORGANIZED A TECHNICAL TALK ON "POTENTIALS OF DIGITAL BRANDING" BY MR SATHISH M NAIDU, TECHNICAL MANAGER, MICROGENESIS CADSOFT PVT LTD ,BANGALORE. DATE :23-03-2024 TIME: 2PM -3.30 PM VENUE: KSSA SEMINAR HALL" 2024-03-23



8. 3 DAY STAFF DEVELOPMENT PROGRAM

"THE DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH KSRIF IS ORGANIZED 3 DAYS SDP ON "EMPOWERING THE NON- TEACHING STAFF"

to acquire new skills update existing ones and ensure that staff members are well-equipped to handle their duties efficiently.

- Strengthen communication and teamwork among non-teaching staff members
- Encourage a culture of continuous learning and professional development
- Address aspects of wellness and work-life balance to promote a healthy and positive work environment.
- To enhance knowledge about Accreditation and its requirement

WHO CAN PARTICIPATE?

Non-Teaching Staff including Attenders, Lab Instructors, Foremen, Supporting staffs.

SESSION DETAILS

Date	Time	Topic/ Activity
22/4/24 Monday	9.30 -10.00 AM	Inaugural ceremony
	10 AM-12 PM	Professionalism & Career Development
	1.30-3.30 PM	Health & Wellness
23/4/24 Tuesday	10 AM-12 PM	Requirement of Accreditation & Ranking Framework
	1.30-3.30 PM	Maintenance & Safety at Workplace
24/4/24 Wednesday	10 AM-2.30 PM	Team Building Activities, Industry Visit & Team Outing
	3.00-3.30 PM	Valedictory

was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago. With a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousand, the Sangham went about establishing educational institutions, starting with K.S. Polytechnic in 1992.

Enthused with this success of its foray into technical education, the Sangham moved forward by starting the K.S School of Engineering and Management (KSSEM) in the year 2010.

The campus of K S School of Engineering and Management, nestled in a quiet location off the Kanakapura Main Road, provides good facilities that are required for quality technical education. KSSEM's strength lies in its good vision; dedicated, experienced and well qualified teaching staff; the establishment with recent equipment in the laboratories and the interactive relationship that it has forged with the industry; all with the active support of an eminent Management. KSSEM is offering six Under Graduate courses namely Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Artificial Intelligence and Data Science, Computer Science & Business System and Mechanical Engineering. It is also offering M

MANAGEMENT

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No.15, Mallasandra off. Kanakapura Road,
Bengaluru-560109



3 Days Staff Development Program on "EMPOWERING NON-TEACHING STAFF"

Organized by
Department of Mechanical Engineering

In association with
K S Research and Innovation Foundation
(KSRIF)
Institution Innovation Council



9. UG RESEARCH PROGRAM

"THE DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH KSRIF IS CONTINUING THE UG RESEARCH PROGRAM. CURRENTLY 12 PREFINAL YEAR MECHANICAL STUDENTS ARE PURSUING HANDS-ON COURSE FROM MICROLYTICS COMPANY ON MECHANICAL DESIGN.

UG RESEARCH PROGRAM

A PROGRAM THAT MAKES ALL THE DIFFERENCE!

Undergraduate Research (UG) programs for prefinal year students in KS Group of institutions provide a unique opportunity for students to engage in hands-on research experiences early in their academic journey. This program offers numerous benefits such as enhancing critical thinking skills, fostering creativity and innovation, developing problem-solving abilities, and providing a deeper understanding of their field of study.

Eligibility criteria

- KSGI Student
- Novelty in the proposed research area

what does a scholar get ?

**Scholarship**

**Mentoring by Experts**

**Skill Building Opportunity**

**Internship at Industry**

**Employability**

**Publication Support**

**International Connect**

HURRY UP!! REGISTER HERE

K S GROUP OF INSTITUTIONS

EMPOWERING YOUNG MINDS
A WAY TO EXPLORE WORLD OF RESEARCH

AN INITIATIVE BY
UG RESEARCH PROGRAM

DATE- 12 JAN 2024
TIME-2 PM
VENUE- KSSA SEMINAR HALL

IN ASSOCIATION WITH





10. VISIT BY PRABHA INDUSTRIES

We are delighted to announce that one of the pioneers in the mechanical industry, “PRABHA INDUSTRIES”, visited KSSEM. It's a great honour and pride moment for the Department of Mechanical Engineering and KSSEM. Able to discuss the following points.

Industrial Internship

Placement

FDP @ Prabha Industries

Joint Research

MOU's

Technical Talk



11. PhD/ MS(Eng.) by research -An initiation by Dept. Of Mechanical with KSRIIF

To attract aspirants from both industry and academic institutions, this program has been launched to offer scholarships, dedicated mentoring, and access to advanced research facilities—all at an affordable cost—for candidates joining KSGL.



Ph.D & M Sc by Research

HIGHLIGHTS

- Part-time opportunities for Industrial professionals
- Cutting-edge research areas in Engineering, Applied Science, and Management
- Highly experienced & research focused faculty mentors
- Special focus on multi disciplinary research and social relevant problems
- Several ongoing funded research projects in Collaboration with reputed universities and industries
- Fellowship/Scholarship/Financial Assistance

PROGRAMS

Ph.D & M Sc by Research in:

- Mechanical Engineering(ME)
- Civil Engineering(CV)
- Electronics & Communication Engineering(ECE)
- Computer Science & Engineering(CSE)
- Applied Science & Mathematics(AS&M)

QUALIFICATION

- Ph.D : A post-graduate degree in a related field of study from a UGC recognized university
- M Sc : UG degree in engineering with at least 60% marks (or equivalent GPA) .

CONTACT US

Dr. D.R Swamy
Executive Director ,KSRIIF
📞 9900005009

Dr. Abhishek M.R
Research Coordinator
📞 9886045566

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@ abhishekmr@kssem.edu.in



No. of slots available:52

No. of Research Centers: 04

No. of Research Guides: 14 (Only five active)

No. of Research Scholars: 17

No. of Research candidates mobilised: 15

12. Faculty Internship Program

A major stride in strengthening the bonds between academia and industry. The KS Research and Innovation Foundation has proactively arranged faculty internships at esteemed industry partners to enhance the practical knowledge of faculty members from KSIT and KSSEM of Mechanical Engineering Department.



INDUSTRY SPONSER



13. UG Research Program- Industrial Visit

A major stride in strengthening the bonds between academia and industry. Department of Mechanical Engineering along with KSRIIF scheduled an Industrial visit *(PRABHA Automotive Systems Pvt. Ltd) For UG Research Students.



14. Capacity building Program

CAPACITY BUILDING PROGRAM

WORKSHOP-1 ON FDP PROPOSAL WRITING(COMPLETED)

WORKSHOP-2 ON CONFERENCE/SEMINAR/WORKSHOP PROPOSAL(COMPLETED)

WORKSHOP-3 ON RESEARCH PROPOSAL WRITING(COMPLETED)

WORKSHOP-4 ON RESEARCH ARTICLE WRITING(PLANNING)

FACULTY	DEPT	TITLES -FDP
1 Dr P N Jyothi	ME	Greening the Future: A Faculty Development Program on Sustainable Manufacturing
2 Dr. Abhishek M R	ME	Innovative Approaches to Energy Utilization: Enhancing Sustainability and Efficiency
3 Dr. Balaji B	ME	Creating a Culture of Social Impact: Enhancing Engineering Faculty's Social Innovation Expertise



15. FACULTY IDEATHON

An initiation by KSRIIF to create pool of innovate ideas for student project.

KSSEM Mechanical won 5 wonderla vouchers out of 10 and stands as No. 1 branch among KSGI



The poster for the Faculty Ideathon 2024 features a central graphic of a glowing lightbulb with gears inside, set against a dark blue background. The top left corner displays logos for KSIT, KSSEM, KSRIF, and Wonderla. The top right corner has the KSGI logo with the tagline 'HAVE AN INNOVATIVE IDEA?'. The text on the poster includes:

About The Event
Join us for an exciting Ideathon where faculty members present their groundbreaking project ideas aimed at solving social issues through innovation, cost-effectiveness, and commercialization potential.

Objectives

- **Innovate:** Develop cutting-edge solutions that address pressing social challenges.
- **Social Relevance:** Focus on projects that have a meaningful impact on society.
- **Cost-Effectiveness:** Design projects that are affordable and accessible.
- **Commercialization:** Create ideas that can be scaled and brought to market successfully.

Who Can Participate?

- Open to all faculty members of Mechanical Engineering, Electronics & Communication Engineering, Civil Engineering and Master of Business Administration(MBA)
- Collaborative submissions are encouraged.

Submission Guidelines

- **Deadline:** Submit Your Ideas on or before 15-06-2024

How to Register ?

- Step 1: Visit - <https://forms.gle/g2h2BRb583qgWvCe6> / Scan the QR Code
- Step 2: Fill out the registration form.
- Step 3: Submit your project idea by 15-06-2024.

Contact Details

Mr. Ranganath N
Email: ranganathn@ksit.edu.in
Mob: 9743336296

Dr. Jyothi P N
Email: jyothi.p.n@kssem.edu.in
Mob: 9663080471

For Registration :



Faculty Ideathon 2024
Innovate for a Better Tomorrow
June 29, 2024



16. AMASL VISIT

Mechanical Dept, KSRIF & KSP recently visited ACE MULTI AXES SYSTEMS LTD. Peenya, Bengaluru on 19-04-2024

The following points were discussed with M/S ACE MULTI AXES SYSTEMS LTD.

- Students short term & long-term internship.
- Students' placement for Mechanical & Electronics Stream
- Facility for Industry Driven Faculty Development Program for 5 days.
- Establishment of MoU With KSGI
- Faculty Internship Program
- Industrial Visit for KSGI Students



17. GOVT. OF KARNATAKA VISIT

BMVNTFSA of the Government of Karnataka visited KSIT, KS School of Engineering and Management, and KS Research and Innovation Foundation(KSRIF) to explore potential collaborations in skill development initiatives. During visit, they visited few laboratories of the Mechanical Engineering Department.



17. 1 DAY FACULTY WORKSHOP ON RESEARCH FUNDING SCHEMES IN INDIA

Department of Mechanical Engineering KSSEM, Organised One-day Faculty workshop on Research Funding Schemes in India on 30th November 2024.

K S GROUP OF INSTITUTIONS
K S SCHOOL OF ENGINEERING & MANAGEMENT
K S RESEARCH & INNOVATION FOUNDATION
In association with
DEPT. OF MECHANICAL ENGINEERING
Organizes
One-Day Faculty Workshop
on
“Research Funding Schemes in India”

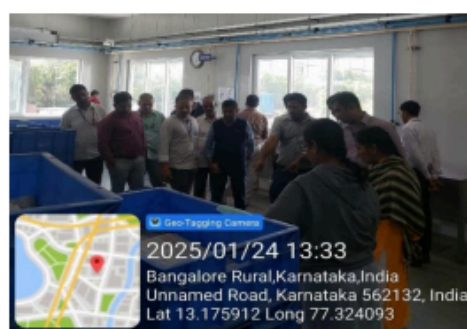

Speaker
Dr. T Ram Prabhu
Joint Director/Scientist
CEMILAC, DRDO



18. 5 DAY INDUSTRY DRIVEN FDP ON CUTTING-EDGE TRENDS IN MANUFACTURING PRACTICES

A 5-Day Industry-Driven Faculty Development Program (FDP) on “Cutting Edge Trends in Manufacturing Practices” was organized by the Department of Mechanical Engineering in association with the K S Research and Innovation Foundation. The program aimed to equip faculty members with knowledge of the latest advancements and trends in manufacturing technologies, strengthening the connection between academia and industry. Emphasis was placed on innovative practices, emerging tools, and technologies shaping modern manufacturing. Participants were given opportunities to enhance their knowledge and teaching methodologies through expert sessions, hands-on demonstrations, and interactive discussions. The initiative successfully fostered skill development and a deeper understanding of industry needs. This Program was coordinated by Dr. P N Jyothi, Professor and Prof. Harisha P, Assistant Professor, Dept. of Mechanical Engg. KSSEM.



19. PROPOSALS SUBMITTED

FDP			
ATAL	03	KSSEM-03	Mechanical-02
VGST	08	KSSEM-8	Mechanical-03

Research Proposals			
VGST	03	KSSEM-03	Mechanical-01

Research Proposals			
DST	03	KSSEM-03	Mechanical-03

FDP Proposals submitted to AICTE-ATAL

Sl. No	Principal Investigator	CO-Investigator	College	Dept.	Proposal Title
1	Dr. P N Jyothi	Mr. Harisha P	KSSEM	ME	Trends and Innovations in Sustainable Engineering
2	Dr. Swamy D R	Dr. Abhishek M R	KSSEM	ME	Creating a Culture of Social Impact: Enhancing Engineering Faculty's Social Innovation Expertise

FDP Proposals submitted to VGST

Sl.No	Principal Investigator Name	CO-Principal Investigator Name	College	Department	Proposal Title
1	Dr. P N Jyothi	Mr. P Harisha	KSSEM	ME	Engineering the Future: Sustainable Practices & Innovations
2	Dr Balaji B	Mr. Akash deep B N	KSSEM	ME	Enhancing Engineering Faculty's Social Innovation Expertise
3	Dr. Abhishek M R	Mr. Parashuram A K	KSSEM	ME	Innovative Approaches to Energy Utilization: Enhancing Sustainability and Efficiency

Research Proposals submitted to VGST

<u>Sl.No</u>	Principal Investigator Name	CO-Principal Investigator Name	College	Department	Proposal Title	Scheme
1	Dr. P N Jyothi	Mr. P Harisha	KSSEM	ME	"Investigating the Performance of Nano based Bio-Oils as Sustainable Cutting Fluids for Mild Steel drilling"	Research Grant for Scientists

Research Proposals submitted to DST

<u>Sl.No</u>	Principal Investigator Name	CO-Principal Investigator Name	College	Department	Proposal Title	Scheme
1	Dr. D R Swamy	Dr. P N Jyothi	KSSEM	ME	"Scientific Social Responsibility SSR in Higher Education Institutions HEIs – A Comparative Study"	India Sri Lanka Joint Call for Research Proposal
2	Dr. D R Swamy	Mr. Harisha P	KSSEM	ME	IGNITING SCIENTIFIC SPARK AND HARNESSING THE SCIENTIFIC SPIRIT AMONG TRIBAL CHILDREN OF ERODE AND CHAMARAJANAGAR DISTRICTS	NCSTC
3	Dr. K V A Balaji	Dr. Abhishek M R	KSSEM	ME	"Professional Development Program on Empowering Journalists' Competence in Grasping Advances in Science and Technology"	NCSTC

CONSULTANCY WORK DONE SO FAR

- HPCL- Makeen's Energy 02 no- BBS- Industrial Safety Workshop
- PJ Margo Pvt. Ltd- Industrial Safety Audit



PLACEMENT DETAILS-2023-24

S. No.	Enrollment No	Student Name	Employer Names
1	1KG20ME002	L A JISHNU	SJS ENTERPRISES LTD.
2	1KG20ME007	PRATHWIN	HUDL
3	1KG20ME008	SHREE HARI G	ACADEMOR
4	1KG20ME009	VISHNU H M	SJS ENTERPRISES LTD.
5	1KG21ME402	DARSHAN GOWDA N	KNS METRO PROPERTIES
6	1KG21ME404	HARSHA L	SJS ENTERPRISES LTD.
7	1KG21ME410	MOHAN KRISHNA V	MOTHERSON SUMI WIRING INDIA LIMITED.
8	1KG20ME005	NITHIN R	JK FILES & ENGINEERING LTD.