



BVV Sangha, Bagalkot  
**AMRUTA INSTITUTE OF ENGINEERING & MANAGEMENT SCIENCES**

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**AIEMS**  
BENGALURU

## Department of Mechanical Engineering

### Industrial Visits

Sl. No	Organising Dept	Name of the Industry Visited (With Address)	Industry Type Mfg/ Service/ Electronics	Date of Visit	Class of Students Visit
1	ME	Fabionix India Pvt. Ltd.	Mfg.	26/11/2025	III, V & VII
2	ME	Macurex Sensors Pvt. Ltd. Doddabasavanahalli, Haasan	Mfg. & Electronics	21/11/2024	V & VII
3	ME	SEJ Automotive India Pvt. Ltd., Haasan	Mfg.	21/11/2024	V & VII



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### Patent Details (Published)

Sl. No	Inventor/s Name	Title of the Patent	Patent Filed Date	Patent Published Date	Affiliation
01	Prof. Nagappa Pattanashetti	“Automated Solar-Powered Weeding Robot”	31 <sup>st</sup> March 2025	07 <sup>th</sup> April 2025	AIEMS
02	Prof. Jagadish K K	AI-Powered System and Method for Intelligent Material Selection in Mechanical Design	08 <sup>th</sup> June 2025	13 <sup>th</sup> June 2025	AIEMS



**Department of Mechanical Engineering**

**Workshop, Seminars and Technical Talks Conducted**

**Workshop conducted at AIEMS**

#	Name of the Staffs	Dept.	Date	Topic
1	Dr. Rajeshwar Kadadevaramath and Prof. Nagappa Pattanashetti	ME	13 <sup>th</sup> September 2025	One Day National Seminar on, “Industrial Safety Management” in association with Bharat Institute of Industrial Safety Management, Bengaluru
2	Dr. Vinod Kumar Biradar	ME	21 <sup>st</sup> November 2025	A Technical Talk on, “A Mechanical Engineer’s Guide to Product Development” by Dr. Nagaraj P M, Assistant Professor, Dept. of Industrial Engineering and Management, Siddaganga Institute of Technology, Tumkur



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**DEPARTMENT OF MECHANICAL ENGINEERING**  
 Technical talk on  
**"A Mechanical Engineer's Guide to Product Development"**

By  
**Dr. Nagaraj PM**  
 Assistant Professor, Dept. of IE&M,  
 SIT Tumkur  
 Online Session : 21.11.2025 at 11.00am





Dr. Vinod Kumar B  
Coordinator

Dr. Rajeshwar Kadavaramath  
HoD Mech

Dr. Santosh M Muralan  
Principal

3	Dr. Vinod Kumar Biradar	ME	25 <sup>th</sup> March 2025	A Workshop on, "Design Thinking, Critical Thinking and Innovation Design" was organized for the 4 <sup>th</sup> semester students of Civil and Mechanical Engineering by Dr. Kumar BID, HOD, Department of Information Science & Engineering, AIEMS, Bidadi
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Sl. No.	Seminar Title	No. of Participants	Date of the Event	Link to the Activity Report
1	A Seminar (Technical Talk) on Quality Control	30	25/07/2024	<a href="#">VIEW</a>
2	A Seminar (Technical Talk) on "Significance of Biocomposites"	21	25/07/2024	<a href="#">VIEW</a>



## Department of Mechanical Engineering

### Journal Paper Publications

Sl. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1	Design and Analysis of Wood Dust-Filled Polymer Composites' Mechanical Properties	Jagadish Kumar, Kari Ramakrishna, Dr. Chandrakala, Sanjana V H	ME	Technische Sicherheit	2025	ISSN:2191-0073, ISSN:1434-9728/E- ISSN:1436-4948
2	A Literature Review: Role of IoT in Shaping Smart Education Environments	Sanjana V.H, Jagadish Kumar K. K, Dr. Chandrakala, Kari Ramakrishana, Dr. Vinod Kumar Biradar	ME	International Journal of Innovative Research in Technology	2025	2349-6002
3	Geographic Aspects are Constructed and Analyzed Using Navigation Cluster-Sized Satellite	Rudresha S, Arun Kumar K, Ganesh C, Nandkishor, Sandesh Babanrao Solepatil, Vinod kumar Biradar	ME	Technische Sicherheit	2025	ISSN:2191-0073, ISSN:1434-9728/E- ISSN:1436-4948
4	Effect of Nickel Chromium Carbide ( $Cr_3C_2$ -NiCr) on Inconel Specimen 600, 625, and 718 by Vickers Hardness Test, Electrochemical Test, and Wear	Dr. Vinod Kumar Biradar, Dr. Udaya Ravi M, Dr. Yuvaraja Naik, Dr. Puneeth Kumar, Manjunath D K	ME	Industrial Engineering Journal	2025	0970-2555



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	Performance by DOE Method					
5	Design and Construction of a Slide and Start Automatic Bike Stand System	Vinod Kumar Biradar, Pramod Kumar L. R, Shreedhar K.A, Suman H.S, Krishnamoorthy Pandey R	ME	Advancement in Mechanical Engineering and Technology	2025	2584-251X
6	Effect, Performance and Conversion of Plastic to Crude Oil	Dr. Vinod Kumar Biradar	ME	International Journal of Scientific Research in Mechanical and Materials Engineering	2025	2457-0435
7	Use, Impact, Design, and Fabrication of an Onion Sorting and De-Topping Storage Machine	Dr. Vinod Kumar Biradar	ME	Research and Reviews on Experimental and Applied Mechanics	2025	NA



**Department of Mechanical Engineering**

**Outreach Programs Organized**

SI No	Dept	Name	Activities - Topic	Location
1	ME	Prof. Nagappa Pattanashetti	An Outreach Activity on Creating Awareness on Cleanliness and Avoidance of Single-use Plastics on 03 <sup>rd</sup> January 2026	Sri Revana Siddeshwara Hills, Ramanagara
		 <p>Abhanakuppe, Karnataka, India        Qc66+p5x, Abhanakuppe, Karnataka 562109, India        Lat 12.762156° Long 77.410488°        Saturday, 03/01/2026 10:09 AM GMT +05:30</p>		 <p>Ramanagara, Karnataka, India        J8qh+72j, Ramanagara, Karnataka 562159, India        Lat 12.638043° Long 77.32748°        Saturday, 03/01/2026 11:14 AM GMT +05:30</p>
2	ME	Dr. Vinod Kumar Biradar	Reduce, Reuse and Revive: The Fight against Single - Use Plastics on 14 <sup>th</sup> March 2025.	GHP School, Ramanahalli, Bidadi.
		 <p>Friday, March 14 2025, 10:33:28 AM        Unnamed Road, Ramanahalli, Karnataka 562109, India        12° 44' 25" N, 77° 24' 7" E 616m        29.0°C ⇌ 12.2Km/h ⇌ 35%</p>		 <p>Friday, March 14 2025, 10:47:46 AM        PCR2+7R6, Ramanahalli, Karnataka 562109, India        12° 44' 26" N, 77° 24' 6" E 564m        31.2°C ⇌ 12.2Km/h ⇌ 27%</p>



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### Details of Resources Persons (Invited and Conducted)

#	Dept.	Name of the Resource Person	Date	Topic	Event Details
<b>Invited</b>					
1	ME	Dr. Rajeshwar Kadadevaramath, AIEMS, Bidadi	31 <sup>st</sup> October 2025	Sustainable Supply Chain Issues and Challenges for 21st Century	A Seminar on, "Sustainable Supply Chain Issues and Challenges for 21st Century" at Basaveshwar Engineering College, Bagalkot
					
2	ME	Prof. Jagadish K K, AIEMS, Bidadi	28 <sup>th</sup> April 2025	CAED Essentials	Resource person for the workshop titled, "CAED Essentials" at Shetty Institute of Technology, Kalaburgi
					

Kalaburagi, Karnataka, India



## Department of Mechanical Engineering

### Conducted

3	ME	<b>Dr. Nagaraj P M</b> , Assistant Professor, Dept. of Industrial Engineering and Management, Siddaganga Institute of Technology, Tumkur	21 <sup>st</sup> November 2025	A Mechanical Engineer's Guide to Product Development	Resource person for A Technical Talk on, "A Mechanical Engineer's Guide to Product Development"
4	ME	<b>Dr. Narayanappa T V</b> , Deputy Director of Factories, Department of Factories and Boilers, Ramanagara Division, Government of Karnataka	13 <sup>th</sup> September 2025	Safety Management in Industries and the Factories Act – 1948 & Karnataka State Factories Rules - 1969	One Day National Seminar on, "Industrial Safety Management" in association with Bharat Institute of Industrial Safety Management, Bengaluru
		<b>Mr. Nagareddy</b> , Assistant Assistant Manager, SHE Section, Toyota Kirloskar Auto Parts Pvt. Ltd., Bidadi		Best Safety Practices at Toyota Kirloskar Auto Parts Pvt. Ltd. And Behaviour Based Safety	
		<b>Dr. SCG Kiruba Daniel</b> , Founder of JK Nano Solutions, IISc., Bengaluru		Environment al Safety for Engineers	



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### Funded Student Projects

Sl. No.	Project Title	Name of the Guide	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency
1	Development of an Arduino Controlled Pesticide Sprayer Robot for Agriculture	Prof. Nagappa Pattanashetti	2024-25	6,000.00	8 months	KSCST, Karnataka