

Dr. Ambedkar Institute of Technology, Bangalore 560 056

Department of Industrial Engineering and Management

About the Department:

The department started in the year 1984 with an initial intake of 30 students in UG Program. The intake was risen to 60 in the year 2013. In the year 1992 the program title was changed to Industrial Engineering and Management by Bangalore University. The faculties here are highly motivated and result oriented. All the faculty members have obtained their master's degree, with 5 having doctorate degree from prestigious universities and 4 faculties are pursuing their PhD programme. Most of the faculty members hold important positions in the university and also are examiners in the Visvesvaraya Technological University/ other autonomous institutions.



Name of HOD: Dr. G. RAJENDRA ME, Ph.D

Designation: Professor and HOD

Mobile Number: 09845659168

Email Id: rajendra.im@drait.edu.in

Programs Offered (both UG and PG)

Name of the Program	Student Intake	Year of Establishment
Industrial Engineering and Management	60	1984

UG Programme

Vision: “To be globally recognized as a leader in Industrial Engineering, research and enhance the application of technical knowledge to benefit the society”.

Mission: 1.To offer globally recognized program that equip graduates with strong problem

Solving ability in the design, analysis and implementation of integrated systems in Manufacturing and service sectors.

2. Create state-of-the-art infrastructure for research and training in

Industrial Engineering.

3. Promoting collaboration with academia, industries and Research organizations at national and international levels for socio-economic development.

PEOs: PEO1: Have a strong foundation in Mathematics, Science and Engineering

fundamentals that prepare them for a successful career in Industrial Engineering, Management and allied fields.

PEO2: Function at a technically competent level in designing a system within realistic constraints such as economic, environmental, social, political, ethical, manufacturability, health and safety and sustainability

PEO3: To effectively and economically utilize the resources of the Enterprise using various optimization techniques.

PEO4: Exhibit professionalism, good oral & written communication skills, team work and develop an attitude for lifelong learning.

- PSOs:**
- a) The curriculum must prepare graduates to design, develop, implement, and improve integrated systems that include people, materials, information, equipment and energy.
 - b) The curriculum must include in-depth instruction to accomplish the integration of systems using appropriate analytical, computational, and experimental practices.
 - c) Materials and manufacturing processes: ability to design manufacturing processes that result in products that meet specific material and other requirements;
 - d) Process, assembly and product engineering: ability to design products and the equipment, tooling, and environment necessary for their manufacture;
 - e) Manufacturing competitiveness: ability to create competitive advantage through manufacturing planning, strategy, quality, and control;
 - f) Manufacturing systems design: ability to analyse, synthesize, and control manufacturing operations using statistical methods; and
 - g) Manufacturing laboratory or facility experience: ability to measure manufacturing process variables and develop technical inferences about the process.

- Pos:**
1. Ability to apply knowledge of mathematics, science and engineering.
 2. Ability to design and conduct experiments related to deterministic or stochastic systems, as well as to analyse and interpret data.
 3. Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

4. Ability to identify, formulate and solve Industrial and Management Systems

Engineering problems.

5. Student will be able to use modern industrial Engineering and management tools necessary for engineering practice.

6. Ability to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

7. Understand the major environmental, social and economic drivers pertaining to the necessity of developing sustainable operations.

8. Student will exhibit professionalism and ethical responsibility.





9. Effectively collaborate and function on multidisciplinary teams.





10. Student will be able to communicate orally and verbally with different sections of society.


11. Manage Project and Finance to satisfy customer expectations.

12. Engage in life-long learning and appreciate the need for continual self development.

List of Faculty members







S.No	Name of the Faculty	Designation	Specialization	Experience	E-mail d	Mobile Number	Passport Size Photo
1.	Dr.G.Rajendra	Professor and Head	Industrial Engineering Welding MMC Composite materials	34 Years	rajendra.im@drait.edu.in	9845659168	
2	Dr.N.Mohan	Professor	Material Science, Manufacturing Science and Engineering, Tribology. Nano Composites	Industry- 10 Years Teaching and Research- 18 Years	drmohannagaraj@gmail.com	7353436111	
3	Dr. S. K. Rajendra	Associate Professor	Machine tool Engineering Industrial Engineering Composite Materials	29 years	rajendra.sk@dr-ait.org	9632370698	
4	Dr .Rajeshwari P	Associate Professor	Ceramic Thermal Barrier Coating	21 years	rajeshwari.p@dr-ait.org	9448117838	



5	Dr. C. R. Mahesha	Asst. Prof.	Nano Composite Materials	15 years	iemmahesha@gmail.com	9886814220	
6	Smt. Suprabha. R	Asst. Prof.	Industrial Engineering & Management, Thermal Power Engineering	15 years	rsuprabha@yahoo.com	9480002074	
7	Mr. N Chetan	Asst. Prof	Industrial Engineering Computer Integrated manufacturing	9 - years	chtn_n@yahoo.com	9845242205	
8	Mr. Rajesh K	Asst. Prof	Industrial Engineering Advanced Materials Technology	7-years	rajesh_kivade77@yahoo.com	9945446730	

9	Smt. Sarvamanagala. S.P	Asst. Prof	Industrial Engineering and Management, Product Design and Manufacturing	5 years	Sarvamangalasp.i m@drait.edu.in	7899135821	
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List of Technical and other staff members

S.No	Name of the Staff	Designation	Experience	E-mail d	Mobile Number	Passport Size Photo
1	Mr. Shankarrao Madival	Instructor	33	srmadival@gmail.com	9901374955	
2	Mr. Harshavardhan A	Instructor	07	Harshaa333@gmail.com	8892314173	

3	Mr. M N Kumar	Mechanic	34	kumarmn64@gmail.com	7259111568	
4	Mr. Venu S	Mechanic	01	Venusanju5@gmail.com	7892925159	
5	Mr. Vishakantappa	Helper	28		9845028023	
6	Mr. Maruthi C M	Helper	14	maruthi1969@gmail.com	9741310547	
7	Mr. Sreenivasa Murthy K R	Helper	07	krsmurthy76@gmail.com	9164752975	
8	Srinivas Murthy B T	Helper	05	Srinivas16485@gmail.com	8747939231	
9	Smt. Jayalakshmi H	Helper	03		7795409566	

10	Mr. Gopi H	Helper	03	gopihuchaiah@gmail.com	9620123551	
11	Mr. Siddaraju S N	SDA	01	Siddarajusn637@gmail.com	9972844990	 SIDDARAJU S.N 23-03-2018

List of BoS Members

Sl. No.	Name of BOS member	Organization	Designation
External BOS Members			
1	Dr. M Mathirajan	Professor, Management Studies, IISc, Bangalore.	Professor
2	Dr. Praveen Gowda	Principal, G Made Gowda Institute of Technology, Mandya	Principal
3	Dr. G S Prakash	Prof. & Head, Dept. of IEM, MSRIT, Bangalore	Professor
4	Dr. Bhimsen Soragaon	Prof. & Head, Dept. of ME, JSSATE, Bangalore.	Professor
5	Dr. Lakshminarasimhan	Prof. Dept. of IEM, SSIT, Tumkur.	Professor
6	Mr. Preetham Hombal	Senior Supply Chain Professional, Capgemini, Bangalore.	Manager
7	Mr. Vinodkumar Shivananda	Value Smart, Bangalore.	Entrepreneur
8	Mr. Jagannath Kulkarni	AVP, HSBC, Bangalore.	Vice President
9	Mr. Anil Kumar SNG	Manager, TCS, Bangalore.	Manager

Internal BOS Members

Internal BOS Members			
1	Dr. G Rajendra	Dr. AIT, Bangalore	Prof. & Head, Dept. of IEM, Dr. AIT, Bangalore
2	Dr. N Mohan	Dr. AIT, Bangalore	Professor
3	Dr. S K Rajendra	Dr. AIT, Bangalore	Associate Prof.
4	Dr. Rajeshwari P	Dr. AIT, Bangalore	Associate Prof.
5	Dr. C R Mahesha	Dr. AIT, Bangalore	Assistant Prof.
6	Mrs. Suprabha R	Dr. AIT, Bangalore	Assistant Prof.
7	Mr. Chetan N	Dr. AIT, Bangalore	Assistant Prof.

Infrastructure Details

Brief Details with Photographs of Laboratories

Computer Lab: State of the art technology software for practical hands-on sessions with software packages such as FlexiSim, TechnoMatrix UGNX, Solid Edge, Minitab Companion, ARENA, SixthSense, CapsTurn and CapsMill, OfBiz, etc.



Mechanical Metrology and Measurement lab: the lab has state of the art equipment for conducting experiments on calibration and measurements.



Industrial Engineering Lab: the lab is equipped with tools, experimental kits and equipment for work study and ergonomics concern applications.



Quality Assurance Lab: the lab has tools and equipment and software for conducting experiments on determining quality characteristics.



Publications (in numbers)

Year	National Journals	International Journals	National Conferences	International Conferences
2019-20	3	10	2	7
2018-19	7	10	7	4
2017-18	4	9	6	6

Industry-Institute Interaction

(MoUs, Industrial Visits)

Details of MOUs

Sl No	Year	Company Name	Remarks
1	2013 – 14	Ducom Instruments Pvt.Ltd.	
2	2013 – 14	Providence Systems India Pvt.Ltd.	
3	2014 - 15	Auto Desk	
4	2015 - 16	Nathan & Nathan Consultancy Pvt.Ltd.	
5	2019 – 20	SKIL	
6	2019 - 20	EDISON AMP TECHNOLOGIES	

R&D Projects

S.No	Scheme	Title of the Project	Funding Agency	Sanctioned Amount
1	RPS	Feasibility studies on development of brush seals 2016-17	AICTE	14.6 Lakhs
2		Rally Car Designed Challenge 2018	PVPWT, Bangalore	8.5 lakhs
3		Smart India Hackathon 2019 (NIT Jamshedpur) - Development of a calibration curve for 3D printed parts	TEQIP+PVP welfare trust	Rs.17,485 + Rs.59,193 = Rs.76,678/-
4		International Conference on Collaborative Learning 2019,Bangkok,Thailand	PVP Welfare Trust	Rs.43,492/-
5		Invited to Indian Institute of Technology, Bombay for Immersive Pedagogical Practices and Twinning Activities”	TEQIP	Rs. 29,620/-
6		International Conference on Implications of IoT in 3D Printing and Remote Engineering 2020, REV Conference, University of Georgia, Atlanta, United States of America	PVP Welfare Trust	Rs.105840/-

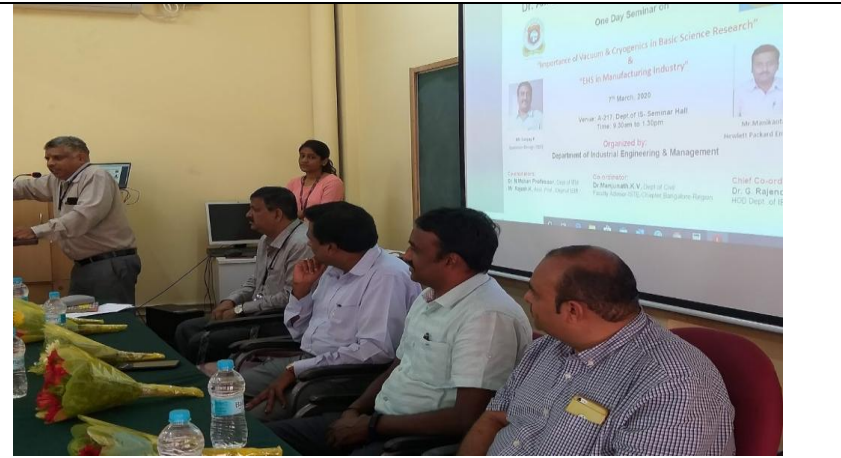
VTU Research Centre Details

S.No	Name of Research supervisor	Area of Specialization	No of Ph.Ds. awarded	No. of Research Scholars pursuing
1	Dr.G.Rajendra	Welding Technology	2	
2	Dr.N.Mohan	Tribology And Composite	3	1
3	Dr. C .R. Mahesha	Tribology And Composite Materials	-----	2
4	Dr. S. K. Rajendra	Tribology And Composite Materials	-----	-----
5	Dr. P. Rajeshwari.	Thermal Barrier Coating	-----	-----

Patent details if any

Sl. No	Details	Name of the Student involved	Name of the Faculty involved	Registration Details	Status
1	Coating of filler wire for introduction of silicon carbide into weld pool	---	G. Rajendra	App. No:307/CHE/2009	Published in Indian patent journal in the year 2012
2	A method to prepare microwave synthesized plasma sprayable gadolinium Oxide stabilized/doped zirconia powder for thermal barrier coating applications	----	Rajeshwari P	Ref. No/ App.No:3603/CHE/2014 Date of filing: 23/07/2014	Filed
3	Method to synthesize plasma sprayable gadolinium oxide stabilized/doped zirconia powder by using poly vinyl alcohol (PVA) binder for thermal barrier coating	-----	Rajeshwari P	Ref. No/ App.No:3593/CHE/2014 Date of filing:	Filed

Photographs of Events Organized with caption



One Day Seminar on "Importance of Vacuum & Cryogenic in Basic Science Research" ISTE Chapter Speakers Mr.Sanjay, Quantum Design, Mumbai and Mr.Manikanta, HP Bangalore,

Industrial Visit



Students visited LM Wind Turbine Blades Tumkur.



Student Visited Govt.Tool Room and training centre



Visited Marconahalli Dam and Southern Scogen India pvt. Ltd Coorg Juice and fruit products processing Plant



Students visited Incap Contract Manufacturing Services Pvt.Ltd. Tumkur.

Students visited Silver Spark Apparel Ltd. Dodaballapur





Students Visited BEML Plant Bangalore

List of Rank holders (First Three Ranks during each year for last 3 years)

Sl.no	Year	U S N	Name of the student
1	2018	SHAISTA R	1DA14IM036
		SAMEEHA SALEEM SHEIKH	1DA14IM035
		SIRI.S	1DA14IM042
2	2019	MANJUNATH R UDUPA	1DA15IM019
		VAISHNAVI SHEKHAR	1DA15IM047
		KIRAN.M	1DA15IM016
3	2020	NIKHITHA.R	1DA16IM021
		AISHWARYA S	1DA16IM003
		SAHANA A RAJ	1DA16IM028