

Department of Mechanical Engineering

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2019-20

(ODD SEMESTER)

CHAIRMAN'S MESSAGE



Making a humble beginning in 2001, CIT has travelled many a mile to establish as a centre of excellence for professional education, in the region. The CIT family has grown well and has today about 3,000 students studying in different streams. This in itself speaks about our commitment and passion for success. The enviable growth of the CIT has been made possible by the contribution of each & every member of the CIT family. The students are imparted the right blend of theoretical concepts and knowledge, taught to succeed even as they take their first step towards their career. I warmly welcome the aspiring students into the CIT fraternity. I hope you have a tremendous learning and joyful time at CIT. On behalf of all of us in the CIT family, I wish you all the best.

Sri G.S. Basavaraj
Chairman, CIT Group of Institutions

MANAGING DIRECTOR'S MESSAGE



It has been a wonderful journey since the inception of CIT in 2001! It may have been fraught with some challenges, but ultimately it has been a rewarding experience in every possible way. The unrelenting efforts of our team have taken CIT to heights that very few had imagined possible. When we look back, we realize the wonderful ideals we started with: progress, innovation and excellence. We also realize our role for the social responsibility, whereby we have taken many philanthropic initiatives. I remain hopeful that as you browse through the pages of this website, my words will reverberate through the content, and that the strength and beauty of CIT will be reflected to you as well. On behalf of all of us in the CIT family, I wish you all the best.

Sri G.B. Jyothi Ganesh
Managing Director & Secretary,
CIT Group of Institutions

DIRECTOR'S MESSAGE



CIT was established with the aim of providing quality education at par with international standards. In a short span of 10 years the Institute has achieved a remarkable place amongst the foremost engineering colleges. With the fast changing technology and international scope for engineering, our mission is to leverage quality education to prepare our students to gain the competencies to address the technical challenges and have long successful careers. The campus has a cosmopolitan atmosphere with students from all corners of the country. Experienced and learned teachers are strongly encouraged to nurture the students. The highly motivated youngsters on the campus are a constant source of pride.

Engineers of today face a world that continually demands new innovations, knowledge and ability to adapt in an ever changing scenario of new technology and competencies. They also need to be good communicators, be able to relate well with other people and to think critically and creatively. CIT is committed towards imparting all the above necessary skills to the students to make them as skilled engineers. Our Memorandum of Understanding with international universities, industries and National Laboratories are our major strength. With steady pace, we continue to excel in the field of engineering

education. **"The Best way to predict your future is to create it"**

Dr. D.S. Suresh, Ph.D
Director and Professor
(Department of Electronics and Communication Engineering)

VICE- PRINCIPAL'S MESSAGE



CIT is an educational institution of excellence, combining quality education with innovation. CIT places a high value on providing its students with a conforming educational experience in their chosen engineering discipline. It offers 6 different engineering courses to students, giving them a solid academic foundation and enabling them to achieve their goals and to excel in their career and life.

Dedicated and talented team of CIT faculty actively encourage and support students to excel, where students demonstrate high level of motivation and capacity to work towards their endeavours and also a strong partnership exists with the Parent community. It is so proud to see CIT moving ahead and be known in the entire university as a college that believes in knowledge and discipline. CIT is a destination to find a way to accomplish your desiring dreams.

Dr. Shantala.C.P
Vice-Principal & HOD of Computer Science & Engineering

CHIEF ADVISOR'S MESSAGE



Sir Isaac Newton once said, "If I have seen farther than other men, it is because I have stood on the shoulders of giants". What he meant, of course, was that knowledge is a cumulative, slowly developing thing; others before us have seen and discovered much, and therefore we can see farther and continue to innovate. If you want to do new things, then you better know about old things, and you better know a broad collection of what is known. What better place, other than CIT, to learn the broad collection of what is known and take the first step to innovate and discover newer things.

Since its inception some 10 years ago, CIT has made its mark as a top-quality institution providing excellent technical education to aspiring engineers. At CIT, we encourage our students to inquire and introspect. We inspire them to imbibe the spirit of inquisitiveness, imagination and innovation. To ensure that our students leverage their strengths and acquire key skills, we have created multiple platforms that lead them to a journey of self discovery and realization of true potential. I welcome you to be a part of an institution without boundaries where even the sky is not the limit to realizing your dreams.

Dr. K. N. Sridhar Rao, Ph.D.
Chief Advisor (Academics & Research)
Professor (Department of Computer Science and Engineering)

MISSION OF THE DEPARTMENT

The mission of the department is to provide requisite foundation to our students in Mechanical Engineering provide cutting edge laboratory resources to bridge the gap between theoretical and practical concepts provide exposure to various mechanical industries through periodic industrial visits enhance our students skill set and to make them industry ready by systematic skill development program.

VISION OF THE DEPARTMENT

To create state of the art learning environment to nurture the learning, blending human values, academic professionalism and research process in the field of mechanical engineering for the betterment of society.

ABOUT OUR DEPARTMENT

Mechanical Engineering is one of the oldest and broadest engineering disciplines. Though, the development of Mechanical Engineering can be traced back to several thousand years around the world, Mechanical engineering emerged as a prominent field during the industrial revolution in Europe in the 18th century. Mechanical Engineering emphasizes on Design, Materials & Manufacturing, Thermal Engineering, and also interdisciplinary areas like CAD/CAM/CAE, Automation, Operational Research, Mechatronics, FEM, Managerial Aspects of Industry, etc. The field has continually evolved to incorporate advancements in technology, and mechanical engineers today are pursuing developments in such fields as composites, Mechatronics, and nanotechnology. Mechanical engineering overlaps with aerospace engineering, civil engineering, electrical engineering, petroleum engineering, and chemical engineering to vary in amounts.

At CIT, the Mechanical Engineering branch started in the academic year 2010 with an annual intake of 60 students and intake was increased to 120 in the academic year 2012-13. Department has a VTU recognized Research center for doctoral studies and runs a course on 'Lathe Operator' under the central Government scheme PMKVY. The department has state-of-the-art laboratories equipped with modern equipment. The department continually strives for the comprehensive development of its students & faculty by carrying out many activities like Faculty Development Programs, taking students to various industries for visits, conducting workshops on the recent technologies, calling in experts from both industry and academia for expert lectures, conducting various Vocational Training Programs to impart some specific skills apart from syllabi.

This new letter highlights the students and faculty achievements during odd and even semester 2017-18.

Professor and Head

FACULTY PAPER PUBLICATIONS

Sl. No	Faculty Name	Topic	Journal	Volume & Date
1	Natesh C P Amarendra H J Shashidhara Y M	Studies on Drilling AISI 316L Using Formulated Pongam Oil as Straight Cutting Fluid	Applied Mechanics and Material	1662-7482, Vol.8 95, pp 197-199
2	R Suresh, L Shivaramu, N G Siddeshkumar, T N Srikantha Dath	Effect of Process Parameters on Cutting Forces and Surface Roughness in Machining of DSS 2205 Using Taguchi's Approach	Applied Mechanics and Material	1662-7482, Vol.895, pp 26-31
3	Nagesh S.B, Chandrashekhar T.K, Banapurmath N.R	Effect of Injector Opening Pressures on the Performance of Diesel Engine Fuelled With Acid Oil Methyl Ester.	International Journal of Recent Technology and Engineering (IJRTE)	2277-3878, Volume-8, Issue-2
4	Giridhar S Kulkarni, G.S. Shivashankar, R Suresh, N.G Siddeshkumar,	Optimization of Drilling Parameters of GFRP with Liquid Silicon Rubber and reinforced with fine Aluminium Powder by Taguchi Approach on Hole Quality.	Silicon(Springer)	10.1007/s12633-019-00260-z

INTERNATIONAL CONFERENCES ATTENDED BY THE FACULTIES

Sl. No	Faculty Name	Title of the paper	Conference	Date
1	Natesh C P	Tribological Studies on Milling ALSId2 using Modified Simarouba Oil.	India Trib-2019- 10 th International Conference on Industrial Tribology, India held at IISC ,Bangalore, Karnataka	1 th to 4 th Dec 2019
2	Harshith H S	FEA and Experimental Evaluation of Fracture Toughness of LM 13 Reinforced with Fused SiO ₂ Karnataka	Fatigue Durability India 2019-3 rd International Conference and Exhibition on Fatigue Durablity and Fracture Mechanics and Symposium on Residual	29 th to 31 st Dec 2019

			Life Assessment And Extension Studies held at V TU, Belgavi, Karnataka	
3	Thara R	Experimental Analysis and Optimization of Mechanical, Machinability And Tribological Properties of Aluminium Metal Matrix Composites Reinforced with Coconut Shell Ash Particulates and Graphite a Review.	International Conference on Advances in Materials Research (ICAMR-2019), RUAS in association with Catalysis Society of India-Bangalore Chapter, held at Ramaiah University of Applied Science, Bangalore, Karnataka.	25 th to 27 th Jul 2019

PROPOSALS SUBMITTED TO FUNDING AGENCIES BY FACULTIES

SI No	Name of the Coordinator	Title of the Project	Funding Agencies	Scheme	Date of Submission
1	Dr. Sridhar Sathyanarayana Dr. Ramesh V	"Modernization of Machine Shop Lab to Inculcate Modern Industry Requirements".	VGST	K-FIST L2	06/11/2019
2	Dr. Sridhar Sathyanarayana	"One Day Training on Maintenance and Service of Equipments".	VTU	TEQIP CELL	24/10/2019

FACULTY DEVELOPMENT PROGRAM (FDP)

SL/ No	Name of Staffs Attended	FDP	Date	Resource Persons	Venue
1	All mechanical staffs of C.I.T Gubbi	One Week Faculty Development Program On "Recent Trends in Mechanical Engineering, NBA Process and Use of Mendeley Software for Researchers"	July 15 th to 20 th 2019	1. Dr. C R Pradeep, Professor, Dept. of Mathematics. 2. Dr. Sridhar, Professor, Dept. of Mechanical Engg. 3. Dr. Shanmugaswam, Professor, Dept. of ECE, CIT, Gubbi 4. Mr. Sugumaran, CADD Centre, Chennai. 5. Mr. Sharaschandra, Managing Director, CADD Centre, Tumakuru. 6. Dr. Shivaram B S, CSIR NAL Bangalore.	CAED Lab C.I.T Gubbi

ACHIEVEMENTS OF STUDENTS

Hobby Project

Sl. No	Title	Students Name	Date	Venue	Prize
1	Design And Fabrication of Solar Operated Multipurpose Agricultural Chopper	Hrushikesh Gowda B C Jignesh Kumar G Patel Maruthi B G Mohammad Afreed I	19 OCT -19	C I T, Gubbi	1 st
2	Conveyor belt using Geneva mechanism	Bapuji V S Devaraj G R Dhanush M K Ramesh M C	19 OCT -19	C I T, Gubbi	2 nd

Paper Presentation

Sl. No	Title	Students Name	Date	Venue	Prize
1	Machining characteristics of DSS 2205 Using DOE	Sachin C Manasa R	18 OCT -19	C I T, Gubbi	2 nd
2	Comparison of Mechanical Behaviour on Mild Steel using Heat Treatment.	Vinayaka Darshan Vineeth S Shivu S	18 OCT -19	C I T, Gubbi	1 st

DEPARTMENT ACTIVITIES

INTERNSHIP DETAILS 2019-20

SI No	USN	Name of the Student	Name of the Industry
1	1CG16ME035	JIGNESHKUMAR G	GTTC MYSURU
2	1CG16ME041	LAKSHMIPRASAD V	
3	1CG16ME050	MARUTHI B G	
4	1CG16ME051	MOHAMMED AFREED I	
5	1CG16ME014	CHANDAN M	
6	1CG16ME094	SHASHANK G S	
7	1CG16ME113	VIJAYA KRISHNA T M	
8	1CG16ME117	YASHAS A N	
9	1CG16ME037	KARTHIK R	GTTC MYSURU
10	1CG16ME065	NISCHITH K S	
11	1CG16ME067	PAVAN N	
12	1CG16ME069	PRADEEP	
13	1CG16ME023	HARSHA A S	
14	1CG16ME045	MANJUNATH J C	
15	1CG16ME046	MANJUNATHA H	

16	1CG16ME057	NAGESHA K C	
17	1CG16ME007	AMITH PRAKASH S	
18	1CG16ME020	HARIN K P	
19	1CG16ME110	UDAY H N	
20	1CG16ME009	AVINASH A PATIL	Precision Camshaft Maharastra
21	1CG16ME093	SHARATH KUMAR B M	Triveni Aeronautics Pvt. Ltd
22	1CG16ME108	THEERTHAKUMAR A S	
23	1CG16ME104	SURAJ S	
24	1CG15ME002	AKSHAY T.N	
25	1CG15ME003	AMAL GEORGE THOMAS	JNR Enterprises
26	1CG15ME066	RAJENDRA PRASADG M	
27	1CG15ME095	VINAY KS	
28	1CG15ME105	VENKATESH B N	
29	1CG15ME434	SHASHANK T L	
29	1CG17ME405	CHANDAN D K	JINDAL BALLARI
30	1CG17ME406	CHEZHAN KUMAR S	
31	1CG17ME411	GURUSIDDAPPA	
32	1CG17ME408	DATTATREYA PAVADI	
33	1CG15ME028	HEMANTH RAJU S	LAKSHMI ENTERPRISES TUMKUR
34	1CG15ME032	KARTHIK MV	
35	1CG15ME038	LIKHITH M J	
36	1CG15ME041	MADHUSUDAN U	
37	1CG15ME020	GAGAN MD	Hoysal Tool Room
38	1CG15ME021	GIRISH MALAKAPPA HANJAGI	
39	1CG15ME053	PAVAN B J	
40	1CG15ME059	PUNEETH TS	
41	1CG15ME064	RAHUL GOWDA KS	
42	1CG17ME426	SANJAY BR	
43	1CG15ME004	AMARNATH B C	
44	1CG15ME096	VINAYKUMAR R	
45	1CG15ME046	MARUTHISH Y	
46	1CG16ME410	JEEVAN B R	
47	1CH16ME058	NANDEESH K B	Mann & Hummel Filter Pvt Ltd
48	1CG16ME019	GNANESHA G	
49	1CG16ME066	PAPEGOWDA	
50	1CG16ME109	THEJAS B M	BEML BANGALORE
51	1CG16ME102	SUHAS D J	HAL BANGALORE
52	1CG16ME072	PUNITH K	
53	1CG16ME078	RAKSHITH GOWDA G K	
54	1CG16ME086	SANATH S	
55	1CG16ME103	SUMAN K S	
56	1CG16ME107	THANUSH C	
57	1CG16ME114	VINAYKUMAR H V	
58	1CG16ME018	GIRIDARSHAN	
59	1CG16ME047	MANJUNATH T H	
60	1CG16ME068	POORNASHREE S R	HAL BANGALORE
61	1CG16ME100	SPOORTHY RAJ	
62	1CG17ME413	KESHAVAMURTHY T S	
63	1CG16ME079	RANJITHA H L	
64	1CG17ME400	ASBHISHEK YAJMAN	
65	1CG17ME414	LIKITH L	

66	1CG16ME002	ADITHYA S	CIM TOOLS
67	1CG16ME006	AKHIL M	
68	1CG16ME008	ARVIND SUNDARARAJ	
69	1CG16ME010	B SANTHOSH	
70	1CG16ME084	SACHITH S	
71	1CG16ME009	AVINASH ANNARY PATIL	
72	1CG17ME432	VIJAY T G	VOLVO BANGALORE
73	1CG14ME089	SACHIN C	
74	1CG15ME104	BHOOMIKA P	
75	1CG15ME106	AKSHAY CHINIVAR	VAHINI PIPES TUMKUR
76	1CG16ME404	BASAVADARSHAN S P	Hoysala Tool Room
77	1CG16ME423	PREM KUMAR	
78	1CG16ME425	RANJAN KUMAR K	
79	1CG16ME426	RENUKAPRASAD H B	
80	1CG15ME028	HEMANTH RAJU S	LAKSHMI ENTERPRISES TUMKUR
81	1CG15ME032	KARTHIK M V	
82	1CG15ME038	LIKITH M J	
83	1CG15ME041	MADHUSUDHAN U	
84	1CG17ME401	AKASH K T	GLOBAL FINE PUNCH TUMKUR
85	1CG17ME409	DEVAKINANDAN H V	
86	1CG16ME088	SATHEESHA K B	
87	1CG17ME404	BALAJI B RAJ	
88	1CG15ME030	JEEVAN S	FITWEL TOOLS TUMKUR
89	1CG16ME058	RAKESH T G	
90	1CG14ME055	MANASA R	
91	1CG16ME412	LOHITH K L	GTTC TUMKUR
92	1CG16ME413	MADHU C S	
93	1CG16ME428	SANGAM C S	
94	1CG16ME439	VIVEK M KASHYAM	
95	1CG16ME098	SHIVARAJU M H	
96	1CG16ME099	SHREEDHARA C S	
97	1CG16ME101	SHRIDDHARA B S	
98	1CG16ME115	VINAYKUMAR B B	
99	1CG17ME431	VASU D S	
100	1CG17ME402	AKASH L	CPC TUMKUR
101	1CG16ME048	MANOHAR K S	
102	1CG16ME030	IRFAN PASHA	
103	1CG17ME407	DARSHAN KUMAR B K	
104	1CG17ME415	LOHITH D S	
105	1CG17ME422	RAGHU S D	
106	1CG17ME434	VIVEK B V	
107	1CG16ME071	PUNEETH T B	
108	1CG16ME091	SHARATH G S	
109	1CG16ME097	SHASHANK P N	
110	1CG16ME116	VISHNU S	
111	1CG17ME428	SHASHIKUMAR B N	
112	1CG15ME082	SHIVA PRASAD T M	
113	1CG16ME083	SACHIN KUMAR ITIGI	
114	1CG16ME074	RAKESH BABU H N	
115	1CG16ME077	RAKSHITH R	
116	1CG16ME090	SHAHID KHAN	
117	1CG16ME026	HONNESH	HAMPSON INDUSTRY NELMANGALA
118	1CG16ME029	HRUSHIKESH GOWDA	

		B C	
119	1CG16ME028	HONNESH D	
120	1CG16ME039	KIRAN A	
121	1CG16ME067	PAVAN N	HAMPSON INDUSTRY NELMANGALA
122	1CG16ME065	NISCHITH K S	
123	1CG16ME069	PRADEEP	
124	1CG16ME037	KARTHIK R	
125	1CG16ME004	AKASH S	
126	1CG16ME034	JEEVITH S	TUMKUR PRECISION PRESSING WORKS
127	1CG16ME056	MONISH R	
128	1CG16ME062	NIDHITH C S	
129	1CG16ME085	SADATH AHAMED A	NANO ROBOTICS EMBED TECHNOLOGIES BANGALORE
130	1CG16ME082	SACHIN FRANCIS	
131	1CG16ME075	RAKESH K	
132	1CG16ME064	NISCHAY T K	
133	1CG16ME036	JOEL ALEXNDAR	
134	1CG16ME021	HARISH K	VENKATESHWARA MANUFATURING SYSTEMS BANGALORE
135	1CG16ME027	HARSHITH T M	
136	1CG16ME111	ULLAS R	TOYOTA KIRLOSKAR BANGALORE
137	1CG16ME038	KARTHIK S R	KGS HYDRAULICS BANGALORE
138	1CG16ME011	BARKATH SAB L	JINDAL ALUMINIUM LTD BANGALORE
139	1CG16ME106	SYED SADIQ	
140	1CG16ME123	MATEEN UR RAHMAN	
141	1CG17ME416	MANOHAR M C	GLOBAL FINE PUNCH TUMKUR
142	1CG17ME420	PUNEETH B S	
143	1CG17ME421	RAGHAVENDRA RAO D S	
144	1CG17ME425	SAGAR N K	

WORKSHOPS ORGANIZED

Sl. no	Date	Workshop Title	No. of Participated students	Resource person
1	04/11/2019	Piping System	78 (V sem)	Mr. Lohith R CAD Engineer Edu CADD Learning solutions Pvt.ltd, Tumakuru

PLACEMENT DETAILS

PLACED STUDENT LIST			
Sl No.	Student Name	USN	Company
1	Vinay Kumar H V	1CG16ME114	CADD Vision, Bengaluru.
2	Vinay Kumar H V	1CG16ME114	Infosys, Bengaluru.
3	Sanath S	1CG16ME086	Cognizant Technology Solutions India Pvt Ltd, Bengaluru.

INDUSTRIAL VISITS

The department is organized industrial visits to Shanthala Spherocast Pvt. Ltd.,

Sl. No	Industry Name	Date of Visit	Semester & Section	No of students	Faculty Co-ordinator
1	Shanthala Spherocast Pvt. Ltd. Bhadravathi - Shivmogga Industrial Area, Shivmogga.	07/11/2019	5 th B	50	Mr. Natesh C P Mr. Srinivas P Patil Mr. Harshith H S

Bhadravathi - Shivmogga Industrial Area, Shivmogga on 07/11/2019. 50 students respectively from Third, Fifth and Seventh semesters are visited to industries.

