



Channabasaveshwara Institute of Technology

(Affiliated to VTU, Belgaum & Approved by AICTE, New Delhi)
(NAAC Accredited & ISO 9001:2015 Certified Institution)
NH 206 (B.H. Road), Gubbi, Tumkur – 572 216. Karnataka



Department of Mechanical Engineering



News Letter

Even Semester

2018-19

Volume: 3

Mechanical Engineering Department News Letter

2018-19 (EVEN SEMESTER)

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SRI. G S BASAVARAJ
Member of Parliament, Tumkur, Chairman,
CIT Group of Institutions

MANAGING DIRECTOR



SRI. G B JYOTHI GANESH
MLA, Tumkur City,
Secretary and Managing Director,
CIT Group of Institutions.

PATRONS



Dr. SURESH.D.S
Executive Council Member, VTU, Belagavi
Academic Senate Member, VTU, Belagavi
Director & Principal, CIT, Gubbi.



Dr. SHANTALA C P
Vice Principal
Professor and Head, Dept. of CSE, CIT,
Gubbi.



Dr. SRIDHAR K N RAO
Chief Advisor (Academic and Research)
Professor, Dept. of CSE, CIT, Gubbi.

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.

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.

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.

At CIT, the Mechanical Engineering branch was started in the academic year 2010 with an annual intake of 60 students and the intake was increased to 120 in the academic year 2012-13. The 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, inviting experts from both industry and academia for expert lectures, conducting various Vocational Training Programs to impart some specific skills apart from syllabi.

This news letter highlights the students and faculty achievements during even semester 2018-19.

Dr. Giridhar S Kulkarni
Head of the Department

STUDENT'S ACHIEVEMENTS

STUDENT'S UNIVERSITY EXAMINATION PERFORMANCES

DEPARTMENT TOPPER (2017-2018) BATCH



Received VTU Fourth Rank for the Academic year 2017-18.

Chandrasekhara Gowda B S
1CG14ME019

ODD SEMESTER TOPPERS :2018-19

Semester

I Place

II Place

III Place

III



Devaraju G R
1CG17ME014

Sanket S Turakanageri
1CG17ME079

KIRAN DS
1CG17ME037

V



Thanush C
1CG16ME107

Mhammed Afreedi
1CG16ME051

Rnjitha H L
1CG16ME079

VII



Subhash C M
1CG15ME087

Niranjanaradhya N
1CG15ME051

Sagar B R
1CG15ME071

STUDENTS PAPER PUBLICATION

Sl. No	Title of the Project	Name of Students	Name of the Guide	College	Journal	Year
1	Effect of Developing a Copra Skimming Machine on Rural Economics	Harshith K.B Darshan S Bhyresh N.S	Dr. Giridhar S kulkarni	CIT	IJREAM (NCTFRD-2018)	2018-19
2	Design and Development Mobile Groundnut Decorticator	Mohan N Dhanush M.G Kiran babu R	Nagesh S B	CIT	IJREAM (NCTFRD-2018)	2018-19

STUDENTS PAPER PRESENTATION

Sl. No	Date of Event	Title of the Paper	Students	Semester	Name of the Conference & Venue
1	26/04/2019 & 27/04/2019	A review on production methods of LM matrix with particulate reinforcement	Mohan N	8 th Semester	National advances in engineering, Technology and science (2k19), Shridevi institute of Engineering & Technology Karnataka.
2	26/04/2019 & 27/04/2019	Design and fabrication of a thermoelectric air conditioner cum refrigerator using E-waste	Niranjanaradhya N Hemanth K G Bharath K G Pavan kumar J	8 th Semester	National advances in engineering, Technology and science (2k19), Shridevi institute of Engineering & Technology Karnataka.

STUDENT PARTICIPATION IN PROJECT EXHIBITIONS

Sl. No	Title of the Project	Name of Student	Date
1	Regeneration of electricity from rotating element.	Bhyresh N.S Harshith K.B Darshan S	10 th May 2019
2	Design and Fabrication of Solar Operator Multipurpose Agricultural chopper	Vinay Sudeep D.I Yugesh N Kiran kumar N	10 th May 2019
3	Design and Development Mobile Groundnut Decorticator	Mohan N Dhanush M.G Kiran babu R	10 th May 2019
4	Design and fabrication of a thermoelectric air conditioner cum refrigerator using E-waste	Niranjanaradhya N Hemanth K G Bharath K G Pavan kumar J	10 th May 2019

5	Design and fabrication of a thermoelectric air conditioner cum refrigerator using E-waste	Niranjana Radhya N Hemanth K G Bharath K G Pavan kumar J	11 th May 2019
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STUDENTS ACHIEVEMENT IN THE SPORTS

Event	Venue	Date of Event	Student Name	USN	Semester	Level
Cricket	JNNCE, Shimoga (Inter collegiate zonal tournament)	12/3/2019 to 15/03/2019	a) Gurusidappa b) Joyal Alexzandar d) Vinay Kumar e) Yogesh BC f) Harin K.P	1CG17ME411 1CG16ME036 1CG16ME113 1CG15ME100 1CG16ME020	VI th VI th IV th VIII th VI th	Runner up

STUDENTS ACHIEVEMENT IN FLAIR 2k19

Sl. No	EVENT	NAME	SEM	USN	LEVEL	VENUE
1	Filmy Solo	Hrithik .S	IV th	1CG17ME033	2 nd place	CIT, GUBBI
2	Filmy Duet	Sandeep S.H	IV th	1CG17ME046	2 nd place	CIT, GUBBI
		Hirithik K	IV th	1CG17ME033		
3	Ethnic Fashion Show	Dhanush M G	VIII th	1CG14ME123	1 st place	CIT, GUBBI
		Faisal Ahmad Khan	VIII th	1CG15ME019	2 nd place	
4	Clay Modeling	Bhupathi T.P	II th	1CG18ME012	1 st place	CIT, GUBBI
5	Quiz	Syed Sadiq Mohammed Adnan	II th II th	1CG18ME054 1CG18ME034	2 nd place	CIT, GUBBI
		Monish R Jeevith S	VI th VI th	1CG16ME065 1CG16ME030	1 st place	
		Jyothi M.B	VI th	1CG15ME031	2 nd place	

PUBLICATIONS

Sl. No	Faculty Name	Topic	Journal	Volume & Date
1	Mr. Hari Kiran M P Mr. Rohith M S Sudheer Kini K Malteshkumar Deshpande	Study on Mechanical Properties of Al2017 HMMCs	International journal of Engineering Research & Technology	7, 2019, pp1-5
2	Mrs.Sushma S Dr. T K Chandrasheker	A Review on Enhancement of Heat Transfer Through Fins	International journal of Science and Research Publications	9(6),2019, pp15-19

RESEARCH SCHOLARS REGISTERED IN 2018-19

Sl No	Details of Research Scholar	Year of Registration	University	Name of the Guide	Research Topic
1	Mr. Rohith M S	2019-2020	V.T.U, Belgaum	Dr. R H Jaya Prakash	Study on Mechanical, Wear Behaviour and Machining Characteristics of Cu-HMMCs.

PATENT DETAILS IN 2018-19

Sl. No	Applicants / Inventors	Title	Application/ CBR No.	Date of Filing
1	Mr. Natesh C P	Design and fabrication of solar operated multipurpose agricultural chopper	201941003687	15/02/2019
2	Mr. Nagesh S B	Design and development of remote controlled strumming of areca nuts using ergonomically stable unmanned aerial vehicle.	201941021076	28/05/2019

INTERNATIONAL CONFERENCES ATTENDED BY THE FACULTIES

Sl. No	Faculty Name	Title of the paper	Conference	Date
1	Mr. Hari Kiran M P Mr. Jayaprakash R H Mr. Rohith M S Dr.Siddeshkumar N G	Study on dry sliding wear behaviour of B ₄ C, Graphite Flakes reinforced Al2017 HMMCs using Taguchi method	International Conference on Smart and Sustainable developments in Materials, Manufacturing and Energy (SME 19) held at M.A.M.I.T-Nitte – 574 110, Karkala Taluk, Udupi District, Karnataka , India	May 23 rd and 24 th 2019.
2	Mr. Harshith H S Dr. Joel Hemanth	Experimental and Finite Element Analysis of Fracture Toughness of chilled LM13 MMC	1 st International Conference on Applied Mechanical Engineering Research (ICAMER 2019) held at NIT Warangal.	2 nd to 4 th May 2019

NATIONAL CONFERENCES ATTENDED BY THE FACULTIES

Sl. No	Faculty Name	Title of the Paper	Conference	Date
1	Mr. Raghavendra T A Dr. Siddeshkumar N G	Analyses of pressure die casting for cylinder head component using ESI Procast.	A Two Days National Conference on Recent Advances in Engineering, Technology and Science - 2K19 (NCRAETS - 2K19), Shridevi Institute of Engineering & Technology, Tumkur.	26 th to 27 th April 2019
2	Mr. Hari Kiran M P Mr. Rohith M S	Study on Mechanical Properties of Al2017 HMMCs	National Conference on Material Processing and Characterization (NCMPC-2019) held at PES Institute of Technology & Management, Sagar Road, N H 206, Shivamogga.	20 th May 2019.

LIST OF STUDENT PROJECT PROPOSALS APPROVED FROM KSCST SPONSORSHIP

Sl. No	Title of the Project	Guide Name	Student Head Name	Sanctioned Amount
1	Regeneration of electricity from rotating element	Mr.Giridhar S. Kulkarni	Mr. Harshith	7000/-
2	Treadmill walking e-bike	Mr. Kiran Gowd M R	Mr. Abhilash M R	7000/-
3	Design and fabrication of solar operated multipurpose agricultural chopper	Mr. Natesh C P	Mr. Sudeep D I	8000/-
4	Study the mechanical and behaviour of Cu-HMMC'S	Mr.Rohith M S	Mr. Siddaramaiah B M	6000/-
5	Performance test on 4 stoke single cylinder diesel engine by using cotton seed oil as biodiesel	Mr. Harshith H S	Mr. Tejas Hiraskar N	7000/-
6	Tribological studies on Milling AISI D2 using BIO Simarouba glauca	Mr. Natesh C P	Mr. Subhash C M	7000/-

VTU FUNDED PROJECTS

Two projects were selected for funding from VTU.

Sl. No	Title of the Project	Guide Name	Student Head Name	Sanctioned Amount
1	Design and fabrication of solar operated multipurpose agricultural chopper	Mr. Natesh C P	Mr. Sudeep D I	5000/-
2	Treadmill walking e-bike	Mr. Kiran Gowd M R	Mr. Abhilash M R	5000/-

DEPARTMENT ACTIVITIES

WORKSHOPS ORGANIZED IN 2018-19

Sl. No	Resource Persons	Workshop Topic	Attended by	Date	Conducted by	Place
1	Mr. K. N Ramakrishna Sr. Consultant- Aerospace, South electronics Pvt.ltd Bangalore	Overview of Aerospace, Defence Industry for Mechanical engineers	Mechanical Engineering Students	15/2/2019	Mechanical Engineering Department	CIT, Gubbi
2	Mr. Koushik G.P, CAD Engineer	Awareness program on CAD, CAM & CAE	Mechanical Engineering Students	3/5/2019	Mechanical Engineering department	CIT, Gubbi

Overview of Aerospace, Defence Industry for Mechanical engineers

The aerospace industry is technically complex and engineers innovate on products that push the limits of technology. The work is multidisciplinary and involves designing components and systems; analysis of structures, fluids and electrical systems; manufacturing the technology; developing and testing it; and supporting the products in service.



The orientation program was aimed to expose the students to a variety of career paths available in aerospace engineering field. Students learnt about basic principles of mechanics to flight.

Awareness program on CAD, CAM & CAE

CAM is now a system used in schools and lower educational purposes. CAM is a subsequent computer-aided process after computer-aided design (CAD) and sometimes computer-aided engineering (CAE), as the model generated in CAD and verified in CAE can be input into CAM software, which then controls the machine tool.



The session was very much interactive. The discussed area is of great benefit for the students those who want to start their carrier in design engineering .Participants gained knowledge about advanced technologies used in this domain.

INDUSTRIAL VISITS 2018-19













Sl. no	Industry Name	Date of Visit	Semester & Section	No of Students	Faculty Co-ordinator
1	CIM Tools India Pvt Ltd Devanahalli, Bangalore	04/05/2019	7 th A	40	Mr. Shreeharsha S R Dr. Siddeshkumar N G



CIM Tools India Pvt Ltd, Devanahalli, Bangalore

INTERNSHIP ATTENDED BY STUDENTS DURING 2018-19

Our students have been carried out Internship during 2018-19 in the following Industries

CENTURA Precision Components, Tumkur 	Mysore Sugar Co. Ltd, Mandya, Mysore 
GTTC, Mysore & Tumkur 	Sensera Engineering Pvt Ltd, Bangalore 
BEML, Bangalore 	HAL, Bangalore 
Kern Liebers, Tumkur 	FITWEL Tools & Forgings, Tumkur 
Precimeasure Controls Pvt Ltd, Bangalore 	IFB Industries, Bangalore 
Jubilant Generics Limited, Nanjangud, Mysore. 	Sensera Engineering Pvt Ltd, Bangalore 
JNR Enterprises, Tumkur	Hoysala Tool Room, Tumkur
Venkateshwara Manufacturing Systems, Bangalore	

FLAIR 2k19





A colourful and memorable Cultural Fest Flair 2k19 was organized in our College by our Department on 26th and 27th April 2019. This event was held in the Main stage of our campus. In this mega event, many colleges from nearby city took part.



PLACEMENT ACTIVITIES

2019 Batch Placement Details

Placed Student List

Sl. No	Student Name	USN	Company
1	 Varun S C	1CG15ME094	ELEATION, Pune
2	 Ziya Ur Rahman	1CG15ME103	Cognizant Technology Solutions India Pvt Ltd, Bangalore
3	 Deekshith H M	1CG15ME018	Quest Informatics Pvt Ltd, Bangalore
4	 Mohan N	1CG15ME048	Quest Informatics Pvt Ltd, Bangalore

5



Niranjana Radhya N

1CG15ME051

Quest Informatics Pvt Ltd,
Bangalore

6



Ziya Ur Rahman

1CG15ME103

Quest Informatics Pvt Ltd,
Bangalore

7



Syed Ruman

1CG15ME435

Quest Informatics Pvt Ltd,
Bangalore

8



Harsha P

1CG15ME024

DHIO Research &
Engineering Pvt Ltd,
Bangalore

9



Harshith K B

1CG15ME025

DHIO Research &
Engineering Pvt Ltd,
Bangalore

10



Ziya Ur Rahman

1CG15ME103

DHIO Research &
Engineering Pvt Ltd,
Bangalore

11



Sudeep D I

1CG15ME432

DHIO Research &
Engineering Pvt Ltd,
Bangalore

PROGRAMMES ATTENDED BY FACULTY

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

Sl. No	Name of Staffs Attended	FDP	Date	Venue
1	Dr.Giridhar S Kulkarni Mr.Raghavendra T A	New Product Development using Creo	03-5-2019	RNSIT Bangalore
2	Mr. Rohith M S	Introduction to Composites	Jan-April 2019	Online Course
3	Mr. Chikannaswamy V M	SEAT for Rural Development	29-6-2019 to 6-7-2019	Sri Yogi Nareyana Mutt, Kaiwara.

SEMINARS ATTENDED BY FACULTY

Sl. No	Name of Staff	Seminar	Date	Conducted by	Venue
1	Mr. Natesh C P	Research Publications, Grants and IPR	08/03/2019	Technical Institute for Engineers (TIE)	Bangalore
2	Dr. Siddeshkumar N G	Research Publications, Grants and IPR	08/03/2019	Technical Institute for Engineers (TIE)	Bangalore

WORKSHOPS ATTENDED BY FACULTY

Sl. No	Name of Staffs Attended	Workshop	Date	Conducted by	Venue
1	Mr. Natesh C P	Scilab Workshop	04/05/2019	IIT, Bombay at K S School of Engineering and Management	Bangalore

VOCATIONAL TRAINING PROGRAM / SKILL DEVELOPMENT PROGRAM

Sl. No.	Semester	Title of the VTP	No. of Students
01	3 rd B	Auto Cad	64
02	5 th A	Uni Graphics	76
03	5 th B	Assembly and Disassembly of Refrigeration and Air Conditioning Unit	75
04	4 th A	Auto Cad	62
05	6 th A	Assembly and Disassembly of Refrigeration and Air Conditioning Unit	75
06	8 th A&B	Uni Graphics	88