



DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER :2020-21

Principal's Message

I am proud that the Department of mechanical engineering is presenting an issue of news letter with talents of their students and faculty. I am sure that the forum encourages the students and faculty of the department to achieve their best.

HOD's Message

At the outset, I congratulate the editorial board for their solidarity in bringing out the newsletter, of the "spark" with flying colors for the academic year 2019 -20. I feel very glad to have the most hardworking result oriented, highly motivated dynamic faculty & staff in the department. I hope this issue of the newsletter comes with more features, brings out the achievements of students & staff and will be the foundation for the upcoming semester for achieving new heights. I wish the editorial board all the success. Each day is the stepping stone for tomorrow. Let all of us with great solidarity strive for better tomorrow.

Message from Editors

Greetings and a warm welcome to our "Spark". We are happy to bring out this news letter which aims to create a forum for exchange of information on all aspects of Mechanical Engineering Department. Thank you all for your kind wishes and support.

Association of spark Mechanical Engineers

The mechanical departmental association SPARK was started in the year 2010. The association effectively brings the students of the department together and bridges them to the outside world.

VISION

To create a center of global standard for imparting education in Mechanical Engineering field and conducting research at the cutting edge of technology to meet the current and future challenges of technological development

MISSION

To build enabling environment for excellent teaching, learning and research in order to produce leading entrepreneurs and innovators in the field of Mechanical Engineering for sustainable improvement.

Events Conducted in the Department



ACS COLLEGE OF ENGINEERING

#207, Kambipura, Mysore Road, Bengaluru-74



TEQIP1.3

Sponsored 5 Days Programme

on

**“OUTCOME BASED EDUCATION AND
NBA ACCREDITATION”**

6th to 10th January 2020

In association with



**VISVESVARAYA
TECHNOLOGICAL
UNIVERSITY**

Organized by

Department of Mechanical Engineering

FIVE DAYS FACULTY DEVELOPMENT PROGRAM

ON

“OUTCOME BASED EDUCATION & NBA ACCREDIATION”

SPONSORED BY VTU TEQIP1.3

About the Programme:

Department of Mechanical Engineering organized **FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON“OUTCOME BASED EDUCATION & NBA ACCREDIATION”SPONSORED BY VTU TEQIP1.3**on 6thTO 10th JANVARY 2020.The inauguration was held at ACS seminar hall 2nd floor from 10.00 am to 11:00 am. The dignitaries on the dais present were: President of the event Dr. M.S. Murali, Principal, ACSCE, Chief Guest Dr.Manjunath,Executive Council Member,VTU-Belagavi Principal, New Horizon College of Engineering,Bangalore, Dr. Siddesha H S, Head of the Department, Mechanical engineering, Dr. Suresh P M, Professor, PG coordinator and R&D and Dr. S Selvanandan, Preofessor& HOD Physics Department,ACSCE.

The flow of the Event is as follows:

The Program started with an Invocation song by Mr. Hemanth, Asst.Professor, Biomedical Engineering Department, followed by Lighting of the lamp by the dignitaries and welcome speech by Dr. H SSiddesha, Head of the Department, Mechanical Engineering, Mr. Sunilraj B A, Asst.Professor,Department of Mechanical engineering explain about the FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON “OUTCOME BASED EDUCATION & NBA ACCREDIATION” SPONSORED BY VTU TEQIP1.3

Dr. M.S. Murali, Principal, delivered the presidential address to the gathering, Dr. Suresh P M , introduce the chief Guest Dr. B Manjunath,Executive Council Member, VTU, Principal, New Horizon College of Engineering, Bangalore. Chief Guest addressed the gathering with topics i.e OBE(Outcome Base Education), What, Why and How OBE related with NBA, Finally to create the Global Standards for imparting the Engineering Field to meet the current and future challenges of Technology development. Session concluded with vote of thank by Dr. S Selvanandan, Preofessor& HOD Physics Department.





Students Project Exhibition



Jnana Vignana Tantragnana Mela - 2020



ACS College of Engineering Students from Mechanical, Aeronautical, Electronics and Computer Science Engineering exhibit their innovative projects and won the prize in Sri Adichunchanagiri Mahasamsthana Math in association with Adichunchanagiri University (ACU) is organizing 'Jnana Vignana Tantragnana Mela - 2020' (JVTM) on 19th and 20th February 2020 at Sri Kshetra, Adichunchanagiri.

Students Project Exhibition

ACS College of Engineering, Department of Mechanical Engineering , three projects are selected for - SOUTH AND SOUTH EAST ASIA'S LARGEST METAL FORMING EXHIBITION. IMTEX FORMING 2020 i2 Pavilion on 23RD TO 28TH JAN2020.

1. ENERGY ABSORPTION CAPACITIES OF EMPTY AND FOAM FILLED TUBES OF VARIOUS SHAPES UNDER AXIAL COMPRESSION. DARSHAN G, MANISHA MANOHARAN, NIKITHA M A. UNDER THE GUIDANCE OF Dr. SURESH PM
2. NANOSTRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOY PROCESSED BY CONSTRAINED GROOVE PRESSING. ABHIJEET B R, RAVI KUMAR N, SHREYAS V UNDER THE GUIDANCE OF Dr. H S SIDDESHA
3. DESIGN AND FABRICATION OF CARBONFIBER FRAME FOR FIREARM KARTHIK KUMAR Y S, MELVIN MICHEAL VAZ, THIRSHEEL BALAJI R, UNDER THE GUIDANCE OF Dr. SURESH P M



Department of Mechanical Engineering Final Year Students with Project coordinator Dr. Suresh P M, Students with Industrialist come as jury members and Mechanical Engineering Final Year Students Participated in quiz contest at IMTEX 2020 METAL FORMING EXHIBITION.


Awareness Program about GATE



Awareness program GATE was organized to enrich the knowledge of Mechanical Engineering students to get exposure/preparation for Graduate Aptitude Test in Engineering(GATE). In the session the resource person explained about the importance of GATE score card in the opportunities in Mechanical Engineering jobs in various Public Sector Units like HAL,NAL,ISRO,GTRE,ADA,BEML,BHEL and higher studies in NIT's and IIT .




Congratulations

RAVI KUMAR N

Graduate Aptitude Test in Engineering		GATE₂₀₂₀ Scorecard	
	Name	RAVI KUMAR N	
	Registration Number	ME20S21208186	
	Examination Paper	Mechanical Engineering (ME)	
	Marks out of 100*	39.46	Qualifying Marks**
	All India Rank in this paper	16391	34.0 30.6 22.6
	GATE Score	416	GEN/ES OBC (NCL) SC/ST/PwD
	Number of Candidates appeared in this paper	137826	
	Valid from March 18, 2020 to March 17, 2023		
	Qualified March 18, 2020		



(Candidate's Signature)

Prof. B. R. Chahar
Prof. B. R. Chahar
Organizing Chairman, GATE 2020
(on behalf of NCB – GATE, for MHRD)


1e8a9447ab41b09c95271e166b02701f

* Normalized marks for Civil Engineering and Mechanical Engineering Papers
** A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this scorecard



Department of Mechanical Engineering



**Mechanical
Engineering Students at
MEGAT ATV Competition
held at GOA with their
own built ALL TERRAIN
VEHICLE : CAR**



***Practical work enhances the knowledge...!!
Practical knowledge gives exposure to the
industrial work...!!***



Department of Mechanical Engineering



**Mechanical
Engineering Students :
On fields for practical
Knowledge :**

**Competition held at
Goa : SAE BAJA**





Department of Mechanical Engineering



*Dr Suresh P M Awarded
with Research Ratna Award*

*Research is key to Success...!!
Awards Boosts up the
Confidence...!!!*



Department of Mechanical Engineering



*Students
exhibiting their
work IN grand
finale of
IMTEX 2020 :
METAL
FORMING
EXHIBITION*

***HARD WORK REAPS THE
FUTURE...!!!***

Department of Mechanical Engineering

PATENTS BUILDS THE BRANDING

CONGRATULATIONS

Another feather in the cap of ACSCE Student . **Mr DEVAIAH M V**, Department of Mechanical Engineering , ACS College of Engineering has filed a patent in the field of Mechanical titled “Design and Manufacturing of All Terrain Vehicles(ATV) with Dual Rate Suspension” in association with the inventors.



Application Details	
APPLICATION NUMBER	201941040901
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/10/2019
APPLICANT NAME	1. DEVAIAH M V 2. Dr. SURESH P M
TITLE OF INVENTION	DIFFERENTIAL LOCKING MECHANISM ACTUATED BY ELECTRIC MOTOR
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	sprn_dvg@yahoo.co.in
ADDITIONAL-EMAIL (As Per Record)	sprn_dvg@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	10/10/2019
PUBLICATION DATE (U/S 11A)	18/10/2019

E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	sprn_dvg@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	10/10/2019
PUBLICATION DATE (U/S 11A)	18/10/2019
Application Status	
APPLICATION STATUS	Application Awaiting Examination
View Documents	

Students Achievements

KSCST & VTU Sponsored Projects

Student's Name	Project Title	Guide Name
LOHITH M C NITISH G VINOD KUMAR K MR. ANIL KUMAR	FABRICATION OF SHEET METAL CUTTING MACHINE AND FOOT STEP POWER GENERATION	Prof. SUNIL RAJ B A
GOUTHAM C SUHAAS KAPARDHI B S SANJAY M B LIKITH KUMAR B K	ULTRA-FINED-GRAINED STRUCTURE DEVELOPMENT OF CARBON PROCESSED USING SEVERE PLASTIC DEFORMATION PROCESS BY CONSTRAINED GROOVE PRESSING	DR. H S SIDDESHA
DEEPAK GOWDA. L VINAY. H CHARANGOWDA.G RAJESH. V	DESIGN AND FABRICATION OF LOW COST MODIFIED MANOEUVRABLE ,STANDING AND STRETCHER WHEEL CHAIR TRANSPORT SYSTEM	DR. SURESH P M

LIST OF EVENTS: 2020 - 2021

Sl. No.	Date	Event	Topic	Resource Person
1	10-06--2021	WEBINAR	PREREQUISITES TO BE A DESIGN ENGINEER	MR. ASHWIN R L ASSISTANT MANAGER,SKILL DEVELOPMENT,CADMAXX SOLUTIONS,BENGALURU
2	31-05-2021	WEBINAR	ROLE OF MECHANICAL ENGINEERS IN AERONAUTICAL & AEROSPACE DOMINE	DR. MADEV NAGARAL DEPUTY MANAGER (DESIGN), ARDC HAL, BENGALURU
3	12-02-2021	WEBINAR	TOOLS USED CAD CAM ANALYSIS	EDU CADD
4	20-05-2020	WEBINAR	MECHANICAL ENGINEERING APPLICATIONS USING GNU OCTAVE	PROF.S.RAJANARASIMHA KJSCM,VIDYAVIHAR VIDYAVIHAR UNIVERSITY
5	20-05-2020	WEBINAR	AWARENESS ON INDUSTRIAL APPLICATION OF CAD/CAE/CAM	CAD MAXX SOLUTIONS
6	12-09-2020	AWARENESS PROGRAMS GATE	GATE EXAM PREPARATION	VANI INSTITUTE

Sponsored Project from Institution of Engineers (India) for funding under IEI R&D Grant-in-Aid Scheme.

Student's Name	Project Title	Guide Name
Mr. Karthik Kumar Y S Mr. Melvin Michealvaz	"DESIGN AND FABRICATION OF CARBONFIBRE FRAME FOR FIREARM"	DR. SURESH P M

GRANTS SUPPORTED RESEARCH ACTIVITIES

Sl.No.	Name of the Organizer	Title of the Project / FDP	Funding Agency/ Source of Fund	Amount in Rs.	Project Duration & Year	Status (Completed / Ongoing)
1.	Dr.Suresh P M Principal Investigator	EXPERIMENTAL INVESTIGATION AND ANALYSIS OF AUTOMOTIVE & AEROSPACE COMPONENTS FOR NVH CHARACTERISTICS	AICTE sponsored project under Research Promotion Scheme (RPS)	21,00,000/-	3 years	ongoing
2.	Mr.Sunil Raj B A	44 th SPP series project	KSCST	7,000/-	6 Months	Ongoing
3.	Dr.Suresh P M	VTU student project	VTU	5,000/-	6 Months	Ongoing
4.	Dr. H S Siddesha	VTU student project	VTU	5,000/-	6 Months	Ongoing
5.	Dr. H S Siddesha	FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON "OUTCOME BASED EDUCATION & NBA ACCREDITATION"	VTU-TEQIP 1.3	3,00,000/-	6 th TO 10 th Jan 2020	Completed
5.	Dr.Suresh P M	43rd SPP series project	KSCST	5,500/-	6 Months	Completed
		Research Grant in Aid	IEI	30,000/-	1 year	Completed

Details of Patent Published

SL.No.	Name of the Faculty	Details of Patent Published related details	Year
1.	SUNILRAJ B A	Patent Application 201741039628	2020
2.	SUNILRAJ B A	Patent Application 202141026302	2021

MEMORANDUM OF UNDERSTANDING (MOU)

For the Placement, Training, Industrial visit, and Internship the Department of Mechanical Engineering is signed an MEMORANDUM OF UNDERSTANDING (MOU) with the below companies:

- 1. CADMAXX Solution Private Limited, Bengaluru**
- 2. Pongu Venture, Chennai**
- 3. National Institute of Fundamental Studies, Kandy, Srilanka**
- 4. Bosch Rexroth, Bengaluru**
- 5. Industrial Technology, Bengaluru**
- 6. Aakspro Research Foundation, Coimbatore**
- 7. Distinct Productivity Solution Private Limited, Bengaluru**