

MECHNOVA

ME DEPARTMENT NEWS LETTER

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HOD DESK

Greetings to Dear students, Faculty and Friends!

Performance of ME students in recently declared university exam results of S6 & S1S2 is commendable. I congratulate all students and faculty members for this achievement. It is gladdening to note that our SAE team is in an advanced stage of readiness to participate in "Formula Student India" racing completion to be held on 20th Jan 2015 at Coimbatore.

One of the fastest emerging manufacturing technologies in the world is additive manufacturing and it expected to change manufacturing the way we see it today. It is predicted that additive manufacturing or 3D printing will change the face of commerce as people will be manufacturing many products and spares themselves at home. A fast prototyping machine (3D PRINTER) "DREAMER is procured by the department to give our students hands on experience with this latest in technology. The 3D printing machine will help students in design visualization, prototyping and manufacturing. I am sure that the machine will extensively be used by students and staff members for projects and research activities.

*Cdr Raju K Kuriakose(retd)
HOD*

COMMENDABLE UNIVERSITY RESULTS

*S1& 2 MECHANICAL 70% & S6 MECHANICAL 76%
ROLE OF HONOURS*

SIS2 ME A

*JITHU MARKOSE 81.93%
KIRAN K JOHN 79.17%
ALAN JOY 79.1%*

SIS2 ME B

*ALBIN A T 78.62%
MATHEW THOMAS 77.59%
JUHAL JOSHY 76.14%*

S6 ME A

*NIJIL EDAVAN CHIRAMAL 79.58%
DALIN MANUVAL 77.25%
AMAL SEBASTIAN 77.08%*

S6 ME B

*RAHUL RAJ K R 78.7%
SARATH O M 77.4%
NAVEENRAJ M K 76.9%*



MECHARENA



ME DEPARTMENT ORGAINSED “ DEMONSTARTION OF FAST PROTOTYPING (3D PRINTER) TECHNOLOGY ON 14TH OCTOBER 2014. WORKING OF DESKTOP 3D PRINTER “DREAMER” WAS DEMONSARTED BY EXPERTS FROM TEAM FLASHFORGE, HYDERABAD.

KEEPING UP WITH LATEST IN TECHNOLOGY

THE RECENT ADDITIONS OF, *DREAMMER 3D PRINTER* AND 4 CYINDER 4 STROKE *PETROL ENGINE TEST RIG* HAVE ADDED MOMENTUM TO THE MODENISATION OF THE DEPARTMENT



Built-in storage space

Self-developed software

The brand-new outward appearance design

Improvement of hardware performance

Perfect cooperation of Dual-extruder

Support with WiFi connection

Multi-language touch screen control

Multi-parameter user-defined

Aerometal material platform

LED pixel strips

Support for various printing filaments

Dreamer

Based on FDM technology business-level desktop 3d printer

- ARM Cortex-M4 CPU processor, computing faster
- IPS material 3.5 in multi-language touchscreen LCD panel operation
- Self-developed Flashprint model slice driver process
- Support with WiFi connection, uploading the printing file to machine
- Built-in 4g memory support with storing file and folder
- Can upgrade firmware on the machine, to keep it always newest version
- Support with USB 2.0/ under 32 G memory card
- High-end plastic-alloy body , a sense of fashion and technology
- Support with windows XP 7/8 32/64 bit/Mac OS
- Compatible with Skeinforge and Slic3r slicing Optional effect of slicing
- No need to calibrate the Imported Aerometal material printing platform
- Easy to operate Upgrade the Modular design of extruder
- Support with ABS/PLA/PVA Molding material and support material
- The modeling size can reach 230*150*140mm
- Enclosed chamber insulating temperature reducing external interference and warp of print.
- Built-in multiple user-defined LED pixel strips
- The way of transmission first then print can reduce internat when print effectively

**TEAM INFINITI TO PARTICIPATE
IN THE
FORMULA STUDENT INDIA**



www.teaminfiniti.in teaminfiniti2014@gmail.com https://www.facebook.com/teaminfiniti https://twitter.com/teaminfiniti_15



FORMULA STUDENT INDIA

Formula Student India is a national level competition which mainly focuses on the design, safety and fabrication of a formula vehicle. The aim of this competition is to promote and grow motor sport engineering spirit in India. Its focus is not only to teach the students to fabricate the vehicle but also helps them to create a Business Logic Plan.

“TEAM INFINITI” is a formula racing car team of Vimal Jyothi Engineering College which comprises of 25 students from mechanical department and is guided by 2 faculty members.

TEAM INFINITI” of VJEC is among the 2 teams which got selection to this event from South India.

On Jan 20th of 2015 at Coimbatore, TEAM INFINITI will ignite its engine on the formula racing circuit and thereby leave a landmark in the history of Vimal Jyothi.

- **SAE Club conducted “Aeromodelling Competition” on 19th Aug 2014**
- **SAE Club Conducted “One Day Work Shop On Baja Vehicle Design” On 21st September 2014**
- **Connection With FORMULA STUDENT INDIA VEHICLE LAUNCH SAE is conducting a painting competition” Paint the Formula Car” from 29th Sep to 6th October**

Invited talk on “SATELLITE LAUNCH VEHICLES OF INDIA” by Dr. N Narayanamoorthy (Former Associate Director VSSC) on 22nd Aug 2014

No need to calibrate the imported Aerometal material printing platform

Mr. Subin Mohan AP ME Published a RESEARCH PAPER titled “Short Beam Shear Strength Measurements of Glass Fibre Reinforced Epoxy Nanocomposites Modified With Graphene Oxide Interfaces” at International conference on materials and characterization techniques (ICMCT) 2014 held between march 10-12 at Vellore institute of technology (VIT).

inform@ when print effectively



- ❖ ROBOTIC CLUB UNDER ME DEPARTMENT CONDUCTED :-
 - PICK AND PLACE ROBOTIC COMPETITION ON 24TH AUGUST 2014
 - ROBOTIC CLUB CONDUCTED ONE DAY ARDINO WORKSHOP FOR STUDENTS ON 31ST AUGUST 2014

S5 ME STUDENTS VISITED INDUSTRIES DURING 26TH, 27TH, AND 28TH of SEPTEMBER 2014

- S5 ME A VISITED TRAVANCORE COCHIN CHEMICALS UDYOGAMANDAL
- S5 ME B VISITED LCT INDUSTRIES AND KERALA ENGINEERING PVT.LTD AT PALAKKAD

S3 ME STUDENTS VISITED WESTERN INDIA PLYWOODS ON 7TH AND 8TH OCTOBER 2014

Industrial Visit



Alumni Association

M tech First Batch students with HOD
Cdr.Raju K.K(retd)



Editors
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Ridhin Raj