



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

STUDENT CENTRIC METHODS

ACADEMIC YEAR 2016-17

KSCST APPROVED PROJECT LIST- 2016-17

SL No	Years	Department	Best Projects		Ref No
12	2016-17	Mechanical	PERFORMANCE AND EMISSION ANALYSIS OF THE SINGLE CYLINDER SI ENGINE VARYING ETHANOL BLENDS WITH PETROL	http://www.kscst.iisc.ernet.in/spp/40series/SPP40S Biofuel Compendium.pdf	40S_B_BE_049
13		Mechanical	REDUCTION OF POLLUTION LEVELS IN THE ATMOSPHERE BY THE USE OF METHANOL BLENDED PETROL FUEL IN AUTOMOBILE IC ENGINE AND THE STUDY OF ITS EFFECTS ON THE PERFORMANCE OF THE ENGINE	http://www.kscst.iisc.ernet.in/spp/40series/SPP40S Biofuel Compendium.pdf	40S_B_BE_064
14		BT	ISOLATION AND IDENTIFICATION OF MICROLABS FOR ABSORPTION AND CONVERSION OF AMMONIA, NITRATES AND NITROGEN USING AQUAPONICS SYSTEM	http://www.kscst.iisc.ernet.in/spp/40series/SPP40 series sponsored B E MTech projects collegewise.pdf	40S_BE_0183
15		ECE	FOREST MONITORING SYSTEM BASED ON GPRS AND POWERED BY IOT	http://www.kscst.iisc.ernet.in/spp/40series/SPP40 series sponsored B E MTech projects collegewise.pdf	40S_BE_2312


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REPORT ON GUIDANCE FOR COMPETITIVE EXAMINATIONS

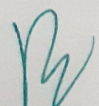
As most of the students are in a state of confusion to choose their career ahead after engineering. To develop bright carrier for our students Sapthagiri college of Engineering has conducted 5 Days program on Guidance for Competitive Examinations for prefinal year students of all branches for Five Days from 19 April 2017 to 24 April 2017. The program was conducted in Placement and training Department Seminar Hall.

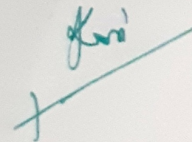
Mr Philip Thomas, Study Abroad Product Head, GRE & GMAT, T.I.M.E, Bangalore had conducted the sessions.



Trainer: Mr. Philip Thomas

The speaker has taken a novel initiative of providing structured career guidance for the engineering students with an objective of creating awareness among them on various career choices of available after engineering.


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16-17

TOP SEARCHES: Kalifi Azmi (<https://timesofindia.indiatimes.com/videos/news/google-doodle-pays-tribute-to-legendary-poet-kalifi-azmi-on-101st-birth-anniversary/video/show/73237513.cms>) Pragna Thakur (<https://timesofindia.indiatimes.com/videos/news/google-doodle-pays-tribute-to-legendary-poet-kalifi-azmi-on-101st-birth-anniversary/video/show/73237513.cms>)



NEWS (/) / VIDEOS (/VIDEOS/) / INDIA (/VIDEOS/NEWS/) / WATCH: GO KART DESIGNED BY BENGALURU...

2 years ago

Watch: Go kart designed by Bengaluru students wins award

27 Feb 2017, 08:21AM IST | Source:

The go kart designed by the students of Mechanical Engineering at Sapthagiri college of Engineering in Bengaluru won the award for most dynamically balanced kart at the Torq racing event.

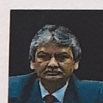


booktwitterlinkedinEmbed



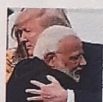
Watch: Go kart designed by Bengaluru students wins award

(/videos/news/watch-go-kart-designed-by-bengaluru-students-wins-award/video/show/57379550.cms)



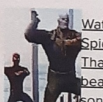
Michael Patra named RBI's deputy governor

(/videos/news/michael-patra-named-rbis-deputy-governor/video/show/73244217.cms)



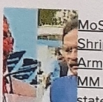
Donald Trump planning India visit in February, says official

(/videos/news/donald-trump-planning-india-visit-in-february-says-official/video/show/73242156.cms)



Watch: Enemies Spiderman and Thanos move to the beat of a Punjabi song in funny video

(/videos/news/watch-enemies-spiderman-and-thanos-move-to-the-beat-of-a-punjabi-song-in-funny-video/video/show/73241975.cms)



MoS Defence Shripad Naik backs Army Chief General MM Naravane's statement on reclaiming PoK

(/videos/news/mos-defence-shripad-naik-backs-army-chief-general-mm-naravane-statement-on-reclaiming-pok/video/show/73241793.cms)



Watch: 10-ft high glacier wall breaks off, slides

(/videos/news/watch-10-ft-high-glacier-wall-breaks-off-slides-on-to-highway-in-himachal-pradesh/video/show/73239731.cms)

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<https://timesofindia.indiatimes.com/videos/news/watch-go-kart-designed-by-bengaluru-students-wins-award/video/show/57379550.cms>

BangaloreMirror

Mon / Feb 24, 2020 MUMBAI MIRROR | AHMEDABAD MIRROR | PUNE MIRROR

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HOME / BANGALORE / OTHER / ENGINEERING STUDENTS BUILD THEIR OWN GO-KART

WATCH
Bangalore woman Amulya misses 'Pakistan Zindabad' slogan; booked for sedition
LIVE NOW
Engineering students build their own go-kart
Bangalore Mirror Bureau | Updated: Feb 28, 2017, 04:00 IST
Read Now



Engineering students from the city built a go-kart all by themselves to participate in competitions. In a recently concluded competition in Bhopal, the mechanical engineering students acquired 15th position along with a special award.

Sapthagiri College of Engineering
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SIGN IN



Two years ago, a group of 11 students from Sapthagiri College of Engineering decided to do something in the field of automobile engineering.

Just at the risk of time, one of the group members came across a competition in an online advertisement for which the team had decided to build a Go-Kart.

After participating in the Indian Go-Karting league two years back, they had won the first prize in the race. This made them even more passionate about the kart and they started modifying it further to make it at par with the ones used at professional sports.

The team moved on with their lives till they heard about Elite Karting, a competition by the Elite Techno Group at Bhopal. They immediately decided to participate.

The team named themselves Torq Racing and went on to qualify the first round of virtual presentation of the vehicle in Bangalore, where they had to present the design of the vehicle through software. 70 teams out of 170 qualified for the next round that was to be held in Bhopal inside the RPA racing circuit from February 16 to 18.

When the final day arrived, the vehicle was all set to take part in the race. It was the semi-final round where two winners will be selected from two groups for the final where the top four will compete. Unfortunately, they could not make it to the final because they stood fourth in the race.

Just as they had lost all hope, they were given a special award of The Most Dynamically Balanced Kart and a cash prize of Rs 10,000. Their overall position in the competition was 15th. The team is planning on building a bodied engine for cars or solar cars in future.

RELATED NEWS



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FROM AROUND THE WEB

16-17

<https://www.youtube.com/watch?v=9HKYm-w1bHI>

To,
The Principal
Sapthagiri College of Engineering
Chikkasandra Bangalore - 57.

Date: 13/02/2017

Respected Sir,

Sub: Request to provide Attendance for attending National Go Karting Event

We the students representing Team TORQ RACING of the department of Mechanical Engineering have the opportunity to Participate in the upcoming ELITE KARTING National Level Go Karting Event at Bhopal. As such, the students whose names are mentioned below will be leaving for the event on 13/02/2017 and returning back to Bangalore on 21/02/2017. We kindly request you to provide attendance for the same duration as we will have to miss classes in order to attend the event. This kind gesture of yours will give us more confidence and help us perform better at the event. Kindly Oblige.

Thanking You,

Sanjay Kumar R
Captain
TORQ RACING

NAMES	SEMESTER	USN
Sanjay Kumar R	8	1SG13ME101
Shree Harsha V Kumar	8	1SG13ME107
Prashanth M	8	1SG13ME085
Rishabh Somaiah K	8	1SG13ME094
Sumanth C A	8	1SG13ME114
Vishwas D R	8	1SG13ME125
Vasanthraj	8	1SG13ME118
Pratheek N	8	1SG14ME413
Mathew O M	6	1SG14ME065
Aditya V Kulkarni	6	1SG14ME007
Sanjay P	6	1SG15ME420

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52

forwarded to principal
13/2/17

Permitted as
referred to maintenance
rules of VTU
@13/2

HOD, ME
@13/2

The event name was ELITE RACING which was hosted by ELITE TECHNO GROUPS , in which 2000+ students from 137 top engineering colleges , 57 major cities from 16 states accounting to 168 teams out of which TORQ RACING from SAPTHAGIRI COLLEGE OF ENGINEERING was one of the teams. The event was based on students building a go-kart on their own in the best ways possible and compete with all the teams from across the nation in a number of categories of competitions. The event was held in 2 different stages in which the first stage involved the students to design the go-kart and give a detailed presentation about how their kart is going to be built. Teams were eliminated based on various grounds of evaluation and only around 70 teams made it to the second round where their karts were got to test around many aspects of performance and aesthetics.

The event was held at 'RPM CIRCUIT ,Rathibad ,Bhopal ' and our team TORQ RACING from SAPTHAGIRI COLLEGE OF ENGINEERING did it's best and gave a really tough competition to all teams nationwide and was among the top teams present in the event.

The event was held for 3 days starting from 16th of February 2017 to 18th February, The first day involved a Technical Inspection round, the second day included the Dynamic Tests and the third day was about an Endurance race.

Each round was an elimination round and finally for the third day only the best teams were qualified for the semifinals among which TORQ RACING was one.

Though we did not win the race we were among the top contending teams and we are proud to be awarded to have built 'THE MOST DYNAMICALLY BALANCED KART' among all teams from India.

The amount of hardships we went through right from designing to the last day of the event and getting the kart back to Bangalore was another challenge on its own, which would not be possible without the support shown by the Dept. Of Mechanical Engineering, management and staff of our college.

Our beloved HOD Dr. Manjunath. S.H, the faculty advisor of our team was a constant support and helped us in every way possible.

Special thanks to Mr.Manoj, Executive Director, without whom taking even the smallest step ahead of the event would not have been possible.



Congratulations!!!

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EK-15



Elite Karting is proud to announce that **TEAM TORQ RACING** from **SAPTHAGIRI COLLEGE OF ENGINEERING, BANGALORE** participated in **Elite Racing 2017**. Their team has completed the fabrication of their race kart and raced with **168** other teams from all over the country. Their team was awarded with

■ Most Dynamic Balanced Kart Award

Scores distribution of the team in event is as follows:

Category	Maximum score	Team Score
Design Report	150	105
Cost	15	7.5
Prototype Cost	85	30.81
Sales Presentation	50	27
Acceleration	120	109.68
Maneuverability	180	170.02
Endurance	400	254.55
Total	1000	704.56

Final Score: 704.56/1000

Overall Rank: 5th out of 168

We wish team and all its members, the very best for their future endeavors.

Managing Director

Principal
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Chikkasandra, Hesaraghatta Road,
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Elite Racing
418, Jaipur Electronic Market,
Ridhi Sidhi Circle, Gopalpura Bypass
Jaipur-302018 (Raj.)
www.eliteracingindia.com

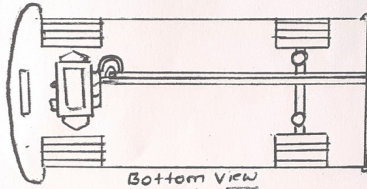
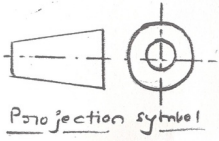
SATHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

Torq Racing Team Won
MOST DYNAMIC BALANCED KART AWARD

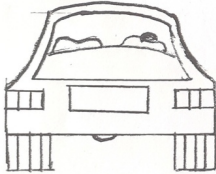


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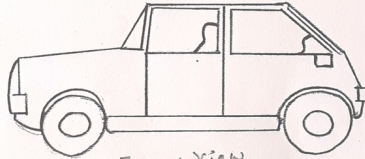
ORTHOGRAPHIC DRAWING OF CAR



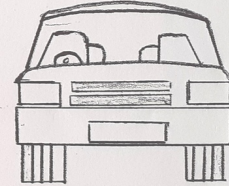
Bottom View



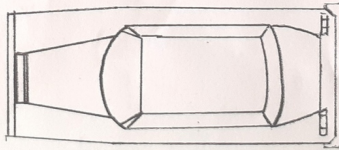
Right Side View



Front View



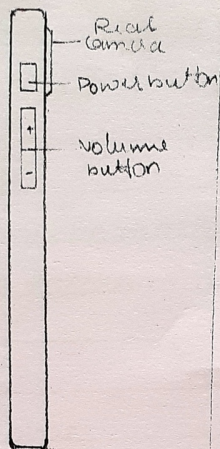
Left Side View



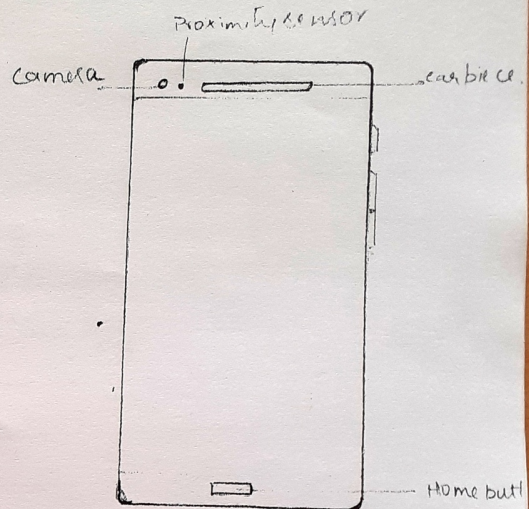
Top View

Scanned with CamScanner
www.camscanner.com

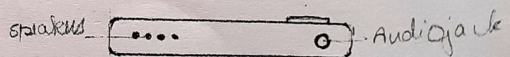
1st Angle projection



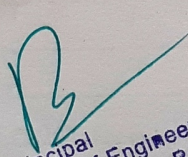
Right side view



Front view



Top view


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- 1) Pavan. Y (15G16ME06)
- 2) Sohas Shetty (15G16ME102)
- 2) Puneeth Kumar.
(15G16ME70)

Design of fixture for gear cover component machining on VMC

¹ Megha G Hegde, ² Shakunthala IC, ³ Gangadhar Hegde, ⁴ Prof. Anil Kumar PR, ⁵ Prof. T Venkate Gowda

^{1,2} Bachelor of Engineering in Mechanical Engineering, Sapthagiri College of Engineering, Bangalore, Karnataka, India

³ CEO, GRM Toolings, Bangalore, Karnataka, India

^{4,5} Assistant professor, Sapthagiri College of Engineering, Bangalore, Karnataka, India

Abstract

Gear cover is very important part of the gear transmission system, where the gear gets fixed inside firmly. It should be accurately machined with the acceptable tolerance. Also the fluctuations of dimensions in work-piece to work piece should be minimum so That it will be easier to assemble the gears inside the gear cover perfectly.

This casted gear cover component requires machining (Facing, Drilling, Tapping, Boring, Counter Boring operations as per the requirement at each faces) on four sides. At present the industry is utilizing 3 separate fixtures for machining of all four sides of the die casted Aluminium gear cover component. Due to this, the maintenance of accuracy of the machining becomes the burden on the operator to adjust the fixtures each time. This increase the setting time, handling time, tool change time. Also the cost per component increases.

The aim of this project is to design and development of a single new fixture connected to turret which replaces the old three fixtures for machining operation using designing software's i.e. Pro ENGINEERING, AutoCAD and analysis using ANSYS, which can eliminate the said problems. Also costing analysis is carried out by comparing old and newly designed fixture. The production rate will also increase up to 50% and cost per component machining decreases, which is quite objective.

Thus, we are designing the fixture for such gear cover component machining for 2-wheeler excel TVS vehicle.

Keywords: fixture, clamping, holder, turret, AutoCAD, pro e, ANSYS

1. Introduction

Fixture [1] – A fixture is a work piece holding device which is rigidly fixed using fasteners on to the machine bed. It has no special arrangements to guide the tool as in jigs. In a setup using a fixture, the responsibility of accuracy is dependent on the operator and the construction of machine tool. In fixtures, the method of clamping and locating should be such that it reduces the idle time to a minimum. Fixtures vary in design from relatively simple tools to expensive, complicated devices. In order to decide upon the location method, one has to consider the work piece shape, size, surface and features that are likely to affect obstruct the tool movement.

correct position of the work piece essentially require restricting of all Degree Of Freedom of the work piece positively. Once a work piece is located, it is necessary to press it against the locating surface and hold it there against the forces acting upon it.

1.1 Elements of Fixture [2]

- **Fixture Body** – This is the main structural element of the fixture. This body is designed as per the dimensions of the required component that is to be machined. In our Design, we have provided the profile cut, that fits the gear cover component on to it. And the size of the fixture body must not be heavy so that it is easy to place it on to the machining bed.
- **Clamps** - It is necessary hold the work piece firmly against the forces acting upon it. This action refers to as Clamping and the mechanism used for this action is called Clamp.
- **Locators** - Fixed component of a fixture. It is used to

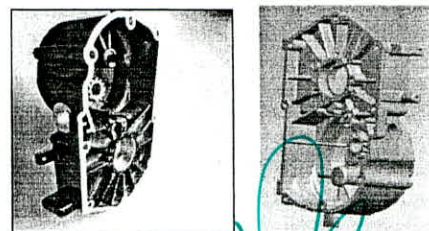
establish and maintain the position of a part in the fixture by constraining the movement of the part. For work-pieces of greater variability in shapes and surface conditions, a locator can also be adjustable.

- **Supports** – These are the elements that are provided on the fixture body to provide the required force against the deformation which are caused due to the action of clamping.

2. Fixture Design Steps

- Dimensional analysis of the Casted Gear Cover Component.
- Modelling of the component in 2D and 3D.
- Analysis of the time and cost of old 3 Fixtures that were used for machining earlier.
- Concept designing of the new fixture considering Design specification, Factory requirements, economy, ease of use and safety.
- Stress and deformation analysis using ASYSIS R16.2 Version.
- Final design and production.

2.1 Casted Gear Cover Component Design

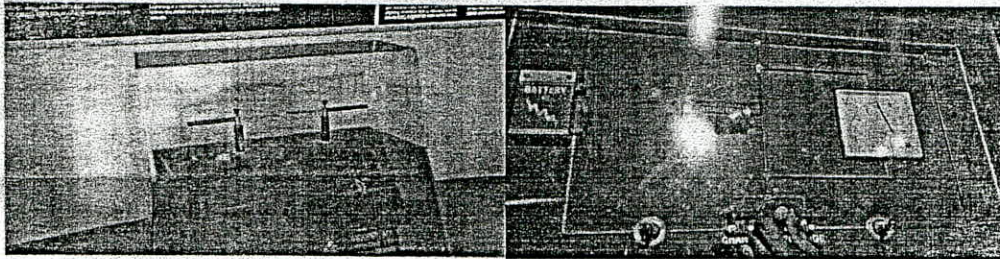


Report on Educational Tour to Museum

The one day Educational tour to Visveswarayya Technological Museum was organised for 2nd year Electronics and communication students on 25th September 2016. The Educational Tour was meant to develop scientific temper among the students and also it was a part of Innovative teaching method for the Engineering Electromagnetics subject (15EC36) of 3rd semester. There were 76 interested students who came for the educational tour with the support from the Head of Department and the Principal of Sapthagiri College of Engineering.

In the Museum, the students were able to understand the concept of Engineering Electromagnetics like faraday's Law, Coulombs law, Biot savart's Law, waves and its application etc practically with the experimental model. The museum visit was not only limited to Engineering electromagnetics, students got motivated with the higher semester subject like CMOS VLSI-IC fabrication Process, Communication system and its application etc.

Few of the pictures which were taken during the museum visit



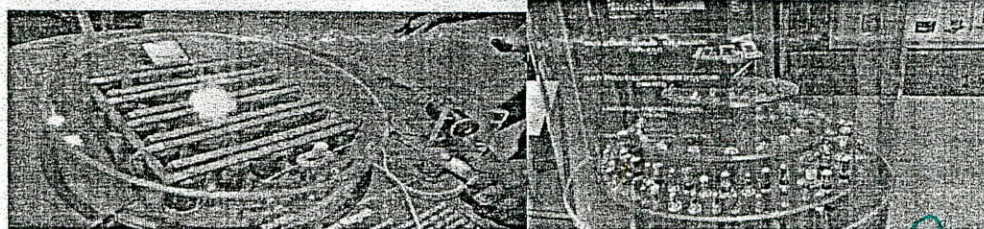
Static Electricity

Capacitor working



Dynamo Working

Faradays Ring

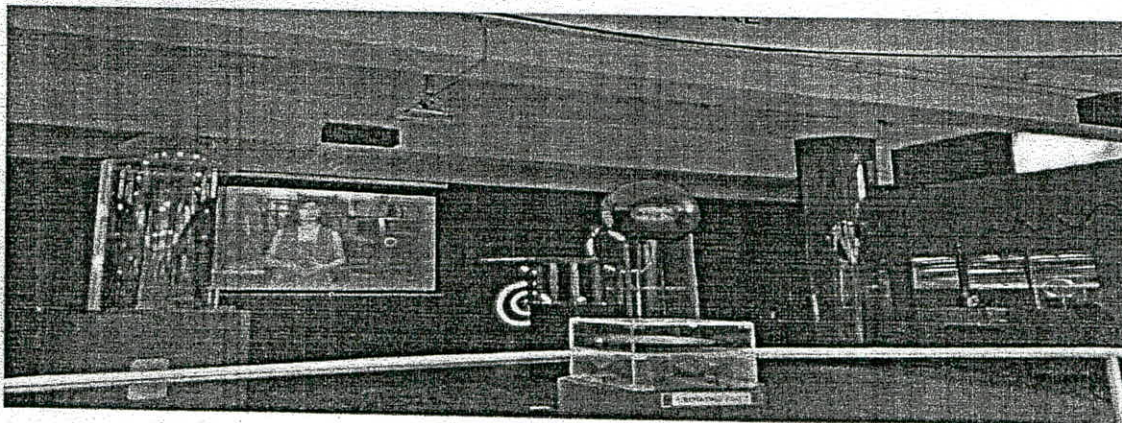
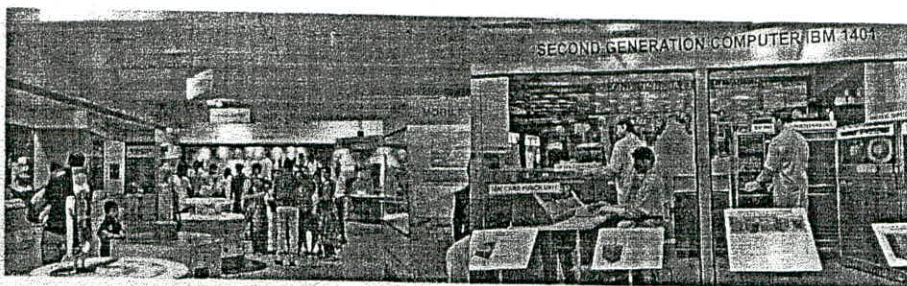


Concept of Biot-Savarts Law

Generation of IC Technology

#87.EC
25/09/16

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Spark Theatre: Concepts of Electromagnetics were explained with the help of demo



Faculty Incharge

Worship
Naveen H

Head of Dept

Sandhya Rani M H
Sandhya Rani M H

Principal
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Chikkasandra, Hesaraghatta Road,
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Ref. No: SEC/Rec/2623/2015 - 16

6th January 2016

To,
The Proprietor,
M/s, Progressive Systems,
No.A-282, 6th Main,
Peenya 2nd Stage,
Peenya Indl. Estate
Bangalore - 560058.

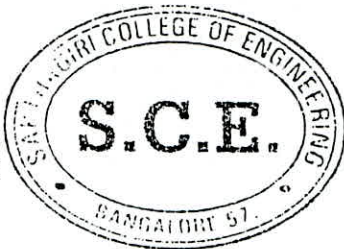
Dear Sir,

We take pleasure in permitting the following students whose details are mentioned below for undergoing internship at your esteemed company. They are bonafide student of this college studying in Third year B.E in Mechanical Engineering during the year 2015-2016.

Sl.No	Student Names	USN No.	Department
1	Vidya S	1SG13ME119	Mechanical Engineering
2	Pratheek N	1SG14ME413	Mechanical Engineering

They will be attending the Vacational Training at your esteemed organization from 8th January 2016 to 19th January 2016 .

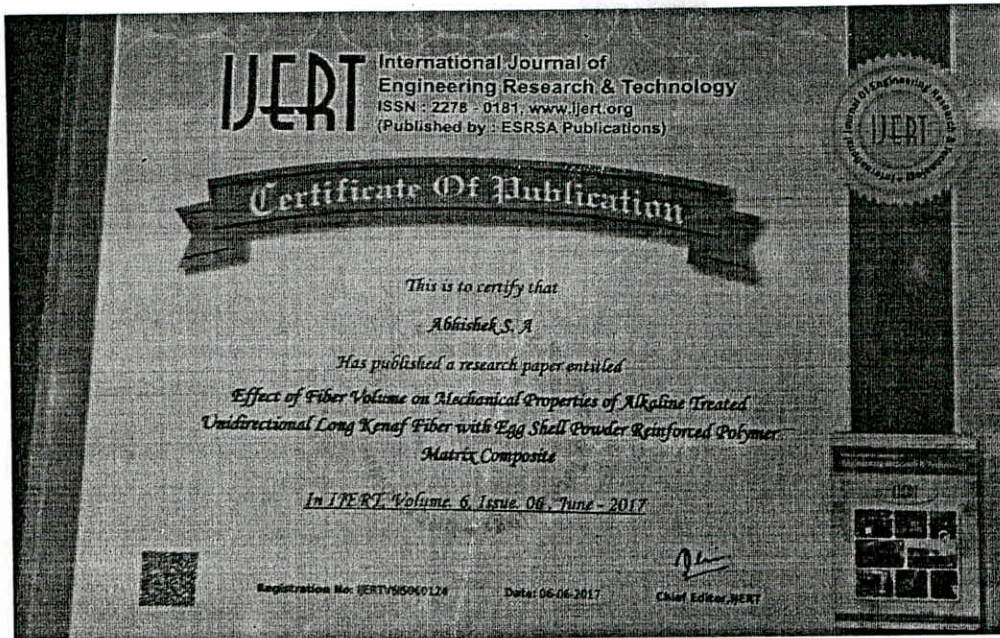
Kindly permit and oblige.



W. C. S.
Dr. Aswatha Kumar M
Principal
Sapthagiri College of Engineering
No. 14/5, Chikkasandra,
Hesaraghatta Main Road,
Bangalore -560 057.

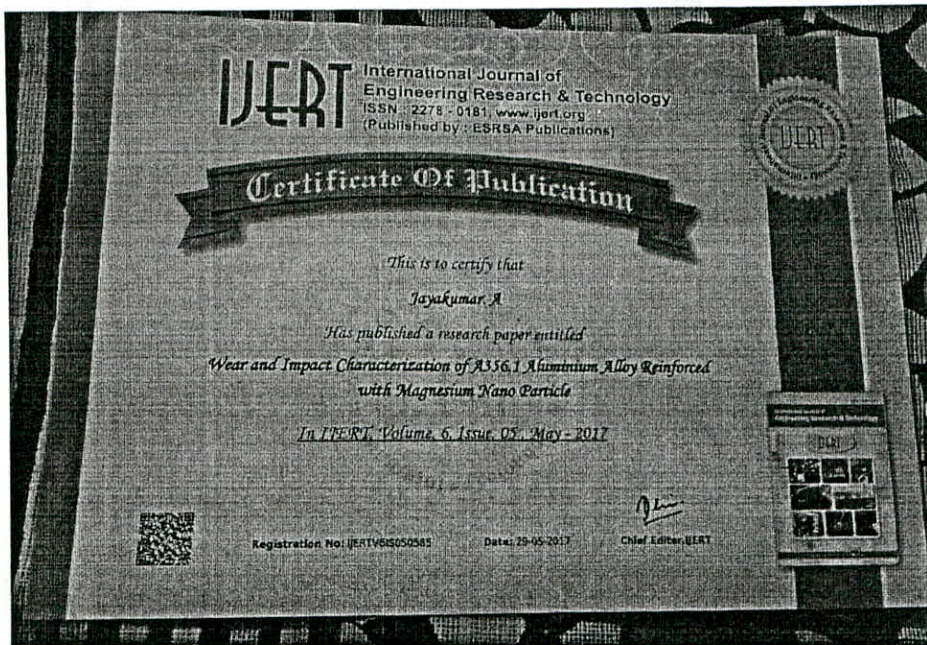
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ME 16-17



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ME 16-17



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S H A G I R I C O L L E G E O F E N G I N E E R I N G, P O O L G A L O R E - 57
D E P A R T M E N T O F I N F O R M A T I O N S C I E N C E & E N G I N E E R I N G
T I M E T A B L E F O R O D D S E M E S T E R 2 0 1 6 - 1 7 *with effect from 09-10-2017*

SEMESTER : V 'B'
 Class Teacher: Prof. Ravichandra M

LECTURE HALL: CLH-001
 DBMS LAB- ALAB-212
 SS LAB- ALAB-213

SS LAB- ALAB-210									
Time → Day ↓	8:30 AM - 9:30 AM	9:30 AM - 10:30 AM	10:30 AM - 10:40 AM	10:40 AM - 11:40 AM	11:40 AM - 12:40 PM	12:40 PM - 01:30 PM	01:30 PM - 02:30 PM	02:30 PM - 03:30 PM	03:30 PM - 04:30 PM
MON	DBMS	CN-1	S H O R T B R E A K	FLAT	SE	L U N C H B R E A K	← SS Lab (B1) Lab →		
TUE	SE	CN-1		SS	OS		DBMS	FLAT	SPORTS
WED	SS	CN-1		SE	FLAT		OS	TUTORIAL	SPORTS
THU	FLAT	DBMS		OS	SS		← DBA (B2) Lab →		
FRI	OS	CN-1		SS	DBMS		←FORUM ACTIVITY →		
SAT	SE	←SS Lab (B2) / DBA(B1) Lab →							

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Sl. No.	Subject Code	Subject Title	Subject Abbreviation	Faculty In- Charge
1	10IS51	Software Engineering	SE	Prof. Praneetha G.N.
2	10CS52	Systems Software	SS	Prof. Ravichandra, M
3	10CS53	Operating Systems	OS	Prof. Ramya R.
4	10CS54	Database Management Systems	DBMS	Prof. Malathi K.P.
5	10CS55	Computer Networks I	CN-1	Dr. Aswath Kumar M.
6	10CS56	Formal Languages and Automata theory	FLAT	Prof. Divyashree G
7	10CSL57	Database Applications Laboratory	DBA Lab	Prof. Malathi K.P.
8	10CSL58	Sytems Software & Operating Systems Laboratory	SS Lab	Prof. Ravichandra M.

cha
 Time Table Co-ordinator

Re
 Dep HOD of
 Information Science &
 Saptagiri College of Engin
 14/5, Chikkasandra, Hosanghata Main Road

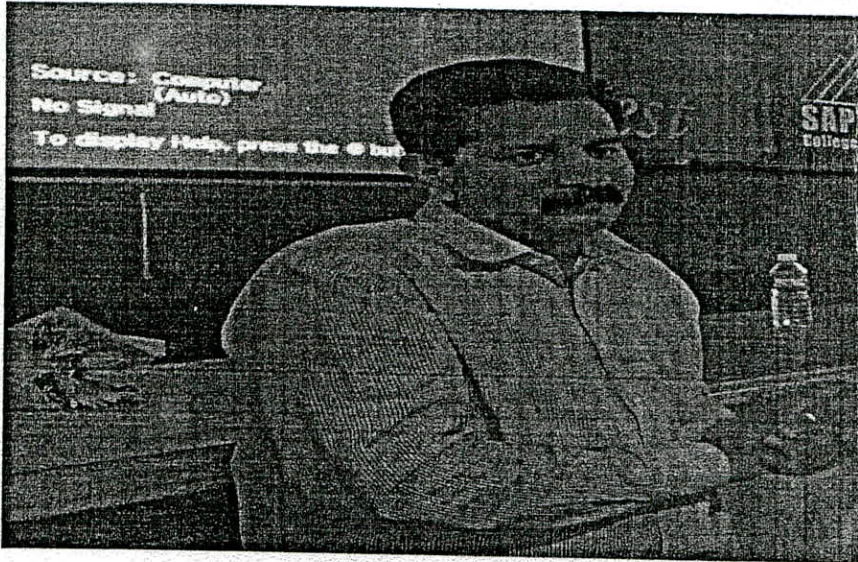
Guest Lecture Report

Topic: "Career Guidance for Higher Studies Abroad and India"

By

Mr. Philip Thomas,

Study Abroad Product Head – GRE & GMAT
T.I.M.E.
Bangalore



Date: 19.04.2017

Time: 11.30 to 12.30

Venue: Seminar Hall, SCE Bangalore.

Speaker Profile:

Mr Philip Thomas: M.A (English). A post- graduate in English Language and Literature , he started his teaching career in 1985 . He has taught in different colleges and institutions associated with Kerala University and M.G. University following which he joined TIME , Bengaluru in 2003. Currently, he is Head for – Study Abroad product- GRE & GMAT, TIME Bengaluru. He has a teaching experience of over 31 years.

Lecture details:

Most of the students are in a state of confusion to choose their career ahead after engineering. The choice are many, advises galore all adding up to the grand confusion. For this reason Dept of ECE set up guest lecture on the Career Guidance for higher education.

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The programme started with the welcome note and introduced the guests. The speaker has taken a novel initiative of providing structured career guidance for the engineering students with an objective of creating awareness among them on various career choices of available after engineering. Career Guidance was a comprehensive, developmental program designed to our students in making and implementing informed higher educational opportunities and occupational choices.

Career guidance and counselling program develops an individual's competencies in self-knowledge, educational and occupational exploration, and the right career planning. Every higher education intended student requires an informative and dynamic seminar that will prepare them for those life-changing career decisions that they face. This career guidance program has put them in touch with today's changing global marketplace trends and tomorrow's career opportunities. The session came to an end with the vote of thanks by Prof. Vani A and The HOD Prof. Sandhya Rani MH presented memento to the guests.



Students and faculties attending sessions of Mr. Philip Thomas


Guest Lecture/FDP/Workshop Co ordinator 20/4/17

Prof. Vani V & Prof. Vani A


HOD ECE 20/4/17
Prof. Sandhya Rani MH

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Guest Lecture Report

Topic: "Analog Electronic circuits and Devices"

By

Mr. MM Trinath,

IES Trainer and
Assistant Professor,
IIIT Hyderabad.
Bangalore



Date: 19.08.2016

Time: 02.30 to 04.30

Venue: Seminar Hall, SCE Bangalore.

The session started with introduction to bounded and bounded systems. He explained the importance of imaginary parameter in defining any system as stable or unstable. He gave excellent explanation on how to use imaginary parameters i and j in any electronic system. The session moved on with explanation of resonance circuits and importance of impedance emphasising on imaginary term j in the circuit.

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Based on the literature of Faraday the discussion continued with the effect of Capacitor in any circuit. With the introduction to Inductance he also explained how the resistor helps to propagate the signal and helps in maximum power transfer.


Most of the GATE exams questions were discussed in between the session and motivated the students to take up GATE entrance to accomplish their dream in IITs and IISc. He also emphasizes that GATE entrance score is considered during recruitment process in the public sector.



Students and faculties attending sessions of Mr. MM Trinath.


FDP/Seminar/Guest Lecture Co ordinator


HODECE
20/08/20


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Guest Lecture Report

Topic: "Overview on implementation of Projects"

By

Mr. Sunil S,

General Manager,
Advanced Electronic Systems (ALS),
Bangalore



Date: 08.08.2016

Time: 10.30 am to 12.30 pm

Venue: Seminar Hall, SCE Bangalore.

Speaker Introduction:

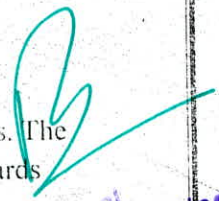
Name : Sunil.T.Shabhatnavar

Qualification: B.E. E&C, from SDM College Of Engineering, Dharwar, 1991.

Joined M/S Advanced Electronic Systems,(ALS) Bangalore in 1992 as a Trainee Marketing Engineer. Since then he has been serving in ALS in various capacities. Now he is the General Manager - handling both national and international markets. Apart from handling Marketing and support he is also involved in initial stages of product design and framing of specifications.

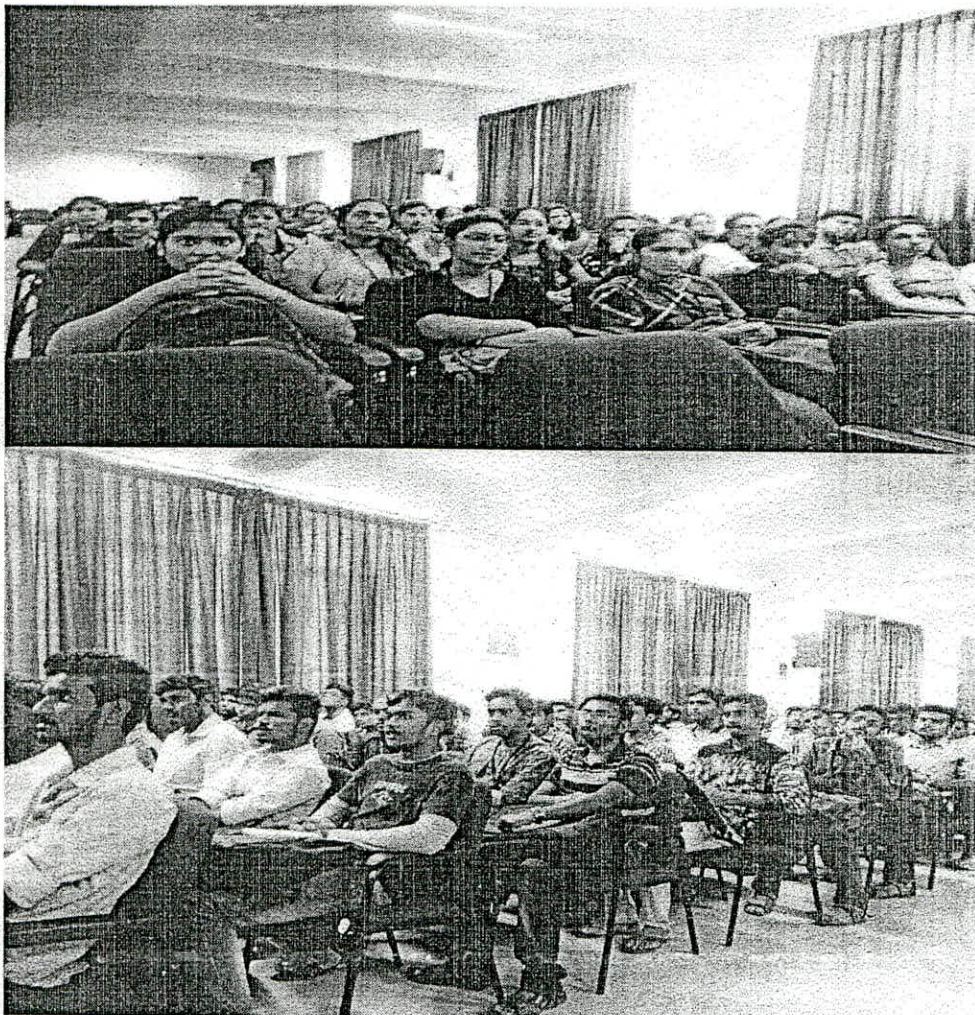
Session Details:

The session started with introduction to Embedded Product development process. The speaker provided brief idea about controller boards, prototyping boards, Evaluation boards



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for study, basic tools, test and measuring instruments, Embedded product design case studies, training courses etc.

As the technical education is moving on fast track lot of emphasis is laid on extra knowledge to implement the projects. However buzz in the industry is that the students who study Engineering are not industry ready. The M/S ADVANCED ELECTRONIC SYSTEMS, Bengaluru, has came out with an innovative idea of trying to help the colleges in establishing "INNOVATION CENTRE" on the campus so that the students and faculty can have the facilities and infra to carry out mini projects in the campus, thereby saving not only time and money but also enhancing their technical skills to a large extent. The session followed by question and answers where students interacted on questions about implementation of projects in the campus.



Students and faculties attending sessions of Sunil S


Prof. Vani V & Vani A
Guest Lecture/FDP/Workshop Coordinator


Prof. Sandhya Rani MH
HOD ECE


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WORKSHOP REPORT ON

“ARM 7”

Date: 17.09.2016 to 19.09.2016

Objective of the workshop:

The objective of this workshop is to provide an opportunity for students to get aware of ARM7 thereby developing a stepping stone towards the development of an Embedded System.

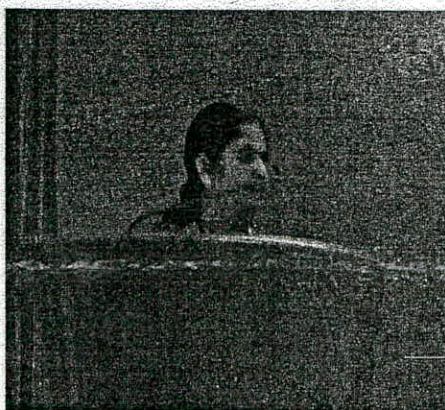
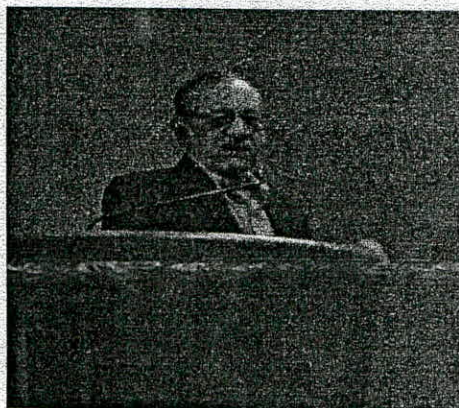
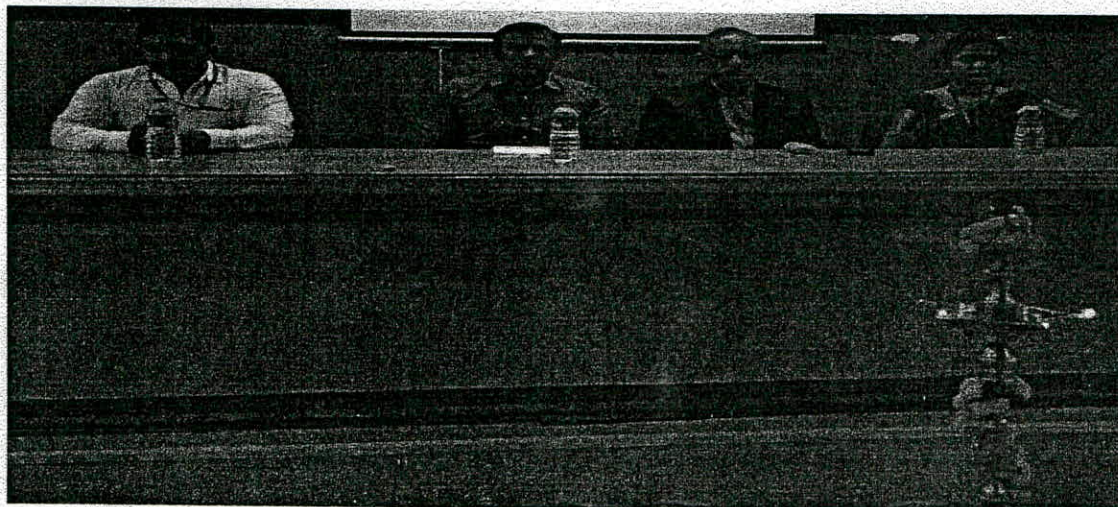
Venue: DSP and HDL Lab, Faraday block, SCE

Coordinated by: Prof. Vani V and Prof. Vani A

In Association with: M/S V&V Technologies, Bengaluru.

Number of Participants: 58

Inauguration and Lamp Lightning by Principal Dr. Aswatha Kumar, HOD Prof. Sandhya Rani MH, Mr. Kumaraswamy and Mr. VISHWANATH from M/s V&V Technologies, Bangalore.

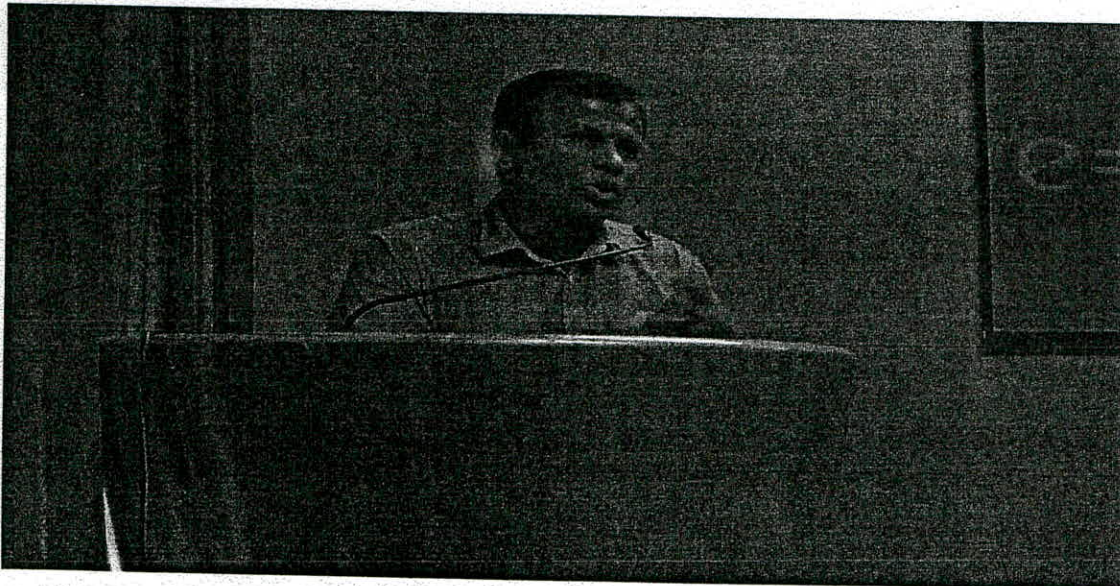


Principal Dr. Aswatha Kumar M and Prof. Sandhya Rani MH, HOD ECE, SCE addressing the participants.

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Summary Report:

The workshop is aimed at helping the students of final year in improving their technical skills in embedded domain as education is incomplete without IT today. This workshop will cover the aspects of embedded system design, applications, and current scenario in the industry. The main theme of this workshop is the hands on training on ARM 7 processor. Its architecture, instruction set and programmer's model will be demonstrated with the popular C language in windows platform. The course was practical oriented. In this workshop participants worked directly on the ARM7 platform and developed programs for various interfaces and run them on the ARM 7 hardware.



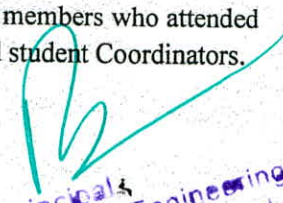
Mr. Kumaraswamy K from M/s V&V Technologies, Bangalore delivering speech to students.

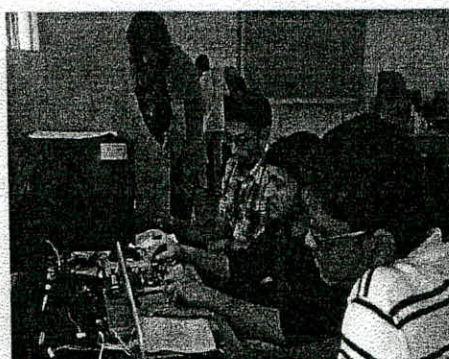
On the first day students were exposed to understand the basic concepts of ARM7 processor and its trends, Introduction to ARM Processor. The theory session extended with introduction to LPC2148 series, System connection block, Memory Mapping, Vectored Interrupt Controller, Pin Configuration by Mr. Kumaraswamy K from M/s V&V Technologies, Bangalore. Afterwards in the laboratory session, expert started with the basic examples students understood how to work on Keil version 4 tool.

On the second day students were exposed to more examples including Kiel Programming on LPC2148 Controller, Port Programming, LED & LCD Programming (4 Bit & 8 Bit), Motor interfacing, Key Pad, ADC, ADC with LCD, UART0, UART1 interfacing.

On the last day Expert gave brief about Different way of programming using ADC, UART 0/1 & LCD , RFID, Zigbee interfacing, GSM interfacing and Mini Project. They also briefed how to do debugging and demonstrated the same.

This workshop proved to be an important one for students and faculty members who attended the same. The entire workshop was co-ordinated by Prof.Vani A & Vani V and student Coordinators.


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Students and faculties participating in the ARM 7 workshop.

Prof. Vani V & Prof. Vani A

FDP/Workshop/Seminar Coordinators

Prof. Sandhya Rani M H 20/09/201

(HOD ECE)

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16-17

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED
No: CEE(TR)/BZ/SEE(O)/AEE-3

913-15



O/o Chief Engineer Electy.,
Transmission Zone,
Ananda Rao Circle,
Bengaluru - 560 009.
Dated: 24 APR 2017

To, The Principal,
Sapthagiri College of Engineering,
No.14/5, Chikasandra Hesaraghatta Main Road,
Bengaluru - 560057.

Sir,

Sub: Permission to visit 400/220kV Nelamangala Receiving Station on 27.04.2017
& 28.04.2017.

With reference to the above, approval is hereby accorded to permit for the Electrical & Electronics Engineering 6th Semester students, along with faculty members of Sapthagiri College of Engineering of Technology Bengaluru to visit, 400/220kV Nelamangala Receiving Station on 27.04.2017 & 28.04.2017 during working hours. (Thursday) & (Friday) @ 1:30 P.M.

The following are the list of station and date for visit.

Sl No	Name of the station	Date and Time	Number of Students & Staffs.
1	400/220kV Nelamangala Receiving Station.	27.04.2017, @ 1.30 pm	65 nos. Students & 2 nos. Staffs.
		28.04.2017, @ 1.30 pm	65 nos. Students & 2 nos. Staffs.

The authorities of Sapthagiri College of Engineering will be fully responsible for the safety of the students and accompanying faculty during their visit. department is not responsible for unforeseen circumstance during the visit.

Contact Person's Details:

1.Executive Engineer Elect.
(Mob. No. 9448365087)
Nelamangala 400/220Kv,Receiving station.
KPTCL, Bengaluru.

Yours faithfully,


Chief Engineer Electy.,
Transmission Zone,

Copy to:

- 1)The Superintending Engineer Ele.,Transmission(Maintenance),Ramnagara Circle,UAS campus Hebbal, Bengaluru.
- 2) The Executive Engineer Elect, TL & SS,Nelamangala Bengaluru.
- 3) AEE-3/MF.

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3-DAY NATIONAL SEMINAR

ON

"ENTREPRENEURIAL OPPORTUNITIES IN BIOTECHNOLOGY"




CERTIFICATE

This is to certify that Prof/Dr/Mr/Ms*VINEETHA M.*.....
of.....*Sapthagiri College of Engineering*.....
has participated/presented poster at the National Seminar held during
23rd to 25th of March 2017, organized by the Department of Biotechnology,

Sir M Visvesvaraya Institute of Technology, Bengaluru - 562157.


Dr. H G Nagendra
Organizing Secretary


Prof. K R Kini
I/c Principal

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INTERNATIONAL CONFERENCE ON
ENVIRONMENT, HEALTH & POLICY NEXUS (ICEHPN-2017)
27-28th, JULY 2017

Organized By
Jagadguru Sri Shivarathreeshwara University, Mysuru


CERTIFICATE

This is to certify that Srilekha K has Presented a Poster Presentation on "EXTRACTION OF CELLULOSE FROM WET ORGANIC WASTE AND ITS APPLICATION IN MANUFACTURING OF PAPER" in Two Days International Conference entitled "Environment, Health & Policy Nexus" held on 27th & 28th July-2017 at Jagadguru Sri Shivarathreeshwara University, Mysuru, India.


Dr. H. P. SHIVARAJU
Convener & Organizing Secretary
ICEHPN 2017


Dr. S. BALASUBRAMANIAN
Chairman, ICEHPN 2017


Dr. B. MANJUNATHA
Registrar, JSS University

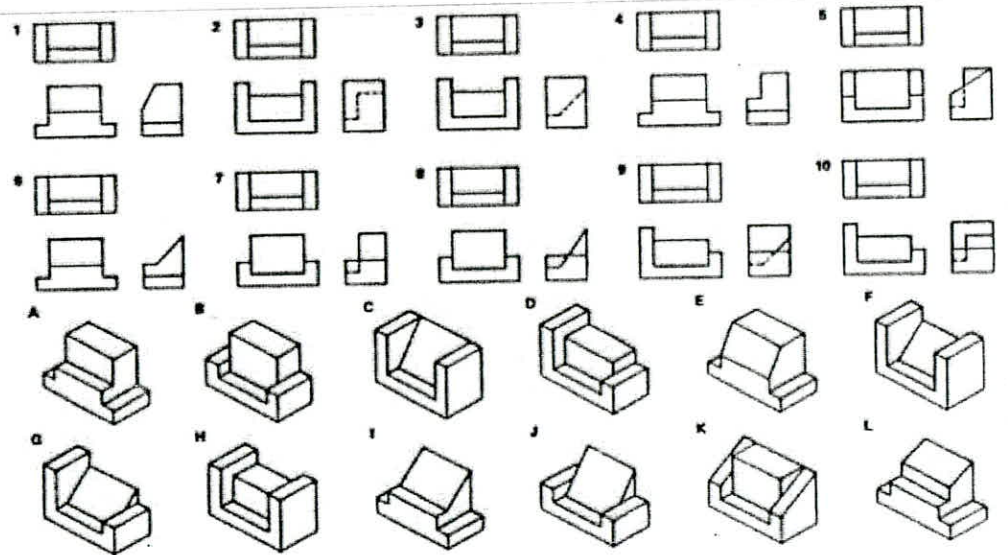

Dr. B. SURESH
Vice Chancellor, JSS University

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Bangalore-560 057

Puzzles

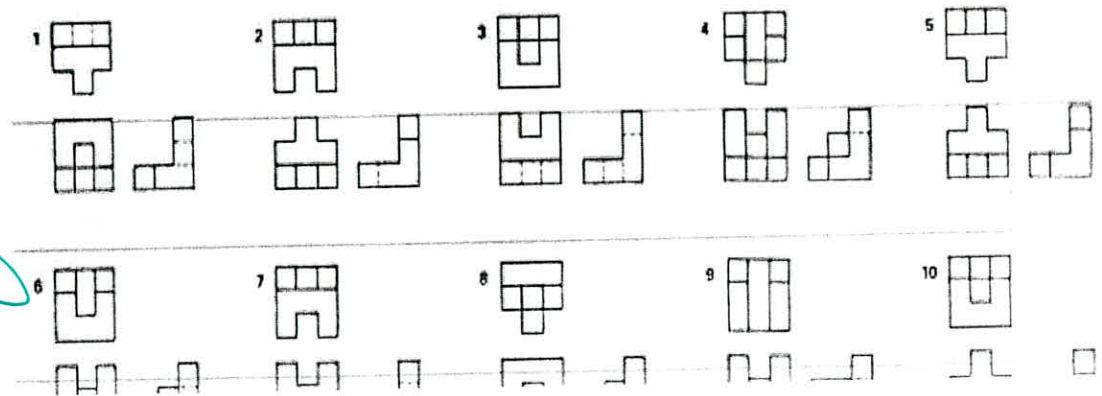
Subject: Computer Aided
Machine Drawing

2. Study the views provided from 1-10 and fill the corresponding object name in the table below:



1	2	3	4	5	6	7	8	9	10

3. Study the views provided from 1-10 and fill the corresponding object name in the table below:



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Sapthagiri College of Engineering
Department of Information Science & Engineering
VIII sem students First Project Progress Seminar on 03-03-17

Batch No.	Project Title	Guide	Time	USN	Student Name	Sign
B1	Framework for data model to personalized health systems	Prof. Malathi K P	8:45 to 9:00 am	1SG13IS006	AKSHATHA	<i>Akshatha</i>
				1SG13IS021	D N SWATHI	<i>Swathi</i>
				1SG13IS041	KAVYA S D	<i>Kavya</i>
				1SG13IS056	MOTUKURI YUGANDHAR	<i>m.yugandhar</i>
B2	CloudSky: A Controllable data self Destruction system for Untrusted Cloud storage Network	Prof. Malathi K P	9:00 to 9:15 am	1SG13IS068	NISCHALA K	<i>Nischala</i>
				1SG13IS074	PARINITHA KIRAN	<i>Parinita</i>
				1SG13IS078	POOJA G	<i>Pooja</i>
				1SG13IS094	SAMATHA REDDY R	<i>Samatha</i>
B3	Proxy server enabled secure EHR data access control system	Prof. Malathi K P	9:15 to 9:30 am	1SG13IS030	GURUPRASAD M	<i>Guruprasad</i>
				1SG13IS054	MOHAN RAJ B N	<i>Mohan Raj</i>
				1SG13IS063	NIKHIL C GANAPATHY	<i>Nikhil C Ganapathy</i>
				1SG12IS008	ANURAG GAURAV	<i>Anurag Gaurav</i>
B4	A Cost aware auto scaling approach using workload prediction in service clouds	Prof. Prerana Chaitra	9:30 to 9:45 am	1SG13IS019	CHANDANA S	<i>Chandana</i>
				1SG13IS023	DEEPIKA V	<i>Deepika</i>
				1SG13IS039	JYOTHI A	<i>Jyothi</i>
				1SG13IS057	NAGASHREE P	<i>Nagashree</i>
B5	Prediction of transitional interval of kidney disease from stage 3 to 5 in data mining	Prof. Ramya R	9:45 to 10:00 am	1SG13IS015	ASMA KOUSAR	<i>Asma</i>
				1SG13IS022	DARSHAN B S	<i>Darshan</i>
				1SG13IS031	H DEEKSHA	<i>H Deeksha</i>
				1SG13IS038	JYOTHI M	<i>Jyothi</i>
B6	Deduplication on encrypted big data in cloud	Prof. Ramya R	10:00 to 10:15 am	1SG13IS077	POOJA	<i>Pooja</i>
				1SG13IS091	RASHMI A	<i>Rashmi</i>
				1SG13IS108	SHUBHADA D BADACHI	<i>Shubhada</i>
				1SG12IS024	M KAVYA	<i>M Kavya</i>
B7	Protection of big data privacy	Prof. Prakruthi S T	10:15 to 10:30 am	1SG13IS066	NILESH KUMAR SHARMA	<i>Nilesh Kumar Sharma</i>
				1SG13IS099	SHALILANAND MISHRA	<i>Shalilanand Mishra</i>
				1SG13IS125	VIVEKANAND	<i>Vivekanand</i>

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B15	Security enhancement for IoT in windows	Prof. Ravichandra M	12:15 to 12:30 pm	1SG12IS021	KAIFI ASIF	KAIFI ASIF
B16	Captcha as graphical passwords a new security primitive based on hard AI problems	Prof. Sheetal Raj	12:30 to 12:45 pm	1SG13IS064	NIKHIL G	NIKHIL G
				1SG13IS104	SHIVAPRASAD K L	SHIVAPRASAD K L
				1SG13IS105	SHREEKAR J	SHREEKAR J
				1SG13IS122	VARUN N	VARUN N
B17	Profiling Apache HIVE query from runtime execution logs	Prof. Gayathri R	1:30 to 1:45 pm	1SG13IS005	AKASH KUMAR P	AKASH KUMAR P
				1SG13IS025	DHRUVA DANDIN	DHRUVA DANDIN
				1SG13IS032	HARDITH SUVARNA M	HARDITH SUVARNA M
				1SG13IS050	MANJU KIRAN M	MANJU KIRAN M
B18	Shoulder surfing resistant graphical authentication system in image processing	Prof. Gayathri R	1:45 to 2:00 pm	1SG13IS002	ABHINAV PANDEY	ABHINAV PANDEY
				1SG13IS028	DIVYA R	DIVYA R
				1SG13IS058	NALINA K P	NALINA K P
				1SG13IS059	NAMRATA KUMARI	NAMRATA KUMARI
B19	Internet of things powered Smart home security and automation system	Prof. Gayathri R	2:00 to 2:15 pm	1SG13IS061	NIDHI KUMARI	NIDHI KUMARI
				1SG13IS096	SAUMYA SALONI	SAUMYA SALONI
				1SG13IS107	SHRUTHI SANJAY	SHRUTHI SANJAY
				1SG13IS119	TH. MRINALINI	TH. MRINALINI
B20	A parallel patient treatment time prediction algorithm and its application in hospital queuing recommendation in a big data environment	Prof. Prerana Chaithra	2:15 to 2:30 pm	1SG13IS007	AKSHAY SINGH	AKSHAY SINGH
				1SG13IS016	AVINASH KUMAR JHA	AVINASH KUMAR JHA
				1SG13IS088	PUJA KUMARI	PUJA KUMARI
				1SG11IS023	KUMARI SUPRIYA	KUMARI SUPRIYA
B21	Privacy preserving Ranked Multi-keyword Search for Multiple Data owners in cloud computing	Prof. Sunitha	2:30 to 2:45 pm	1SG13IS010	AMULYA A N	AMULYA A N
				1SG13IS040	KAVANA C	KAVANA C
				1SG13IS053	MEGHANA MANDLI	MEGHANA MANDLI
				1SG13IS089	RACHANA D	RACHANA D

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B8	Development of IoT based smart security and monitoring devices for agriculture	Prof. Prakruthi S T	10:30 to 10:45 am	1SG13IS069	NISHA KESHRI	Nisha Keshri
				1SG13IS085	PRIYANKA M S	Priyanka
				1SG13IS095	SATHYAPRIYA V H	Sathyapriya
				1SG13IS102	SHAMBHAVI SHUKLA	Shambhavi
B9	Threat Message detection using machine learning methods	Prof. Prakruthi S T	10:45 to 11:00 am	1SG13IS004	ADITHYAKUMAR C K	Adithyan
				1SG13IS008	AMAN KUMAR	Amara Kumar
				1SG13IS027	DIVYA B	Divya B
				1SG13IS046	LAXMI	Laxmi
B10	Emotion based Music player	Prof. Ravichandra M	11:00 to 11:15 am	1SG13IS026	DILIPKUMAR	Dilip Kumar
				1SG13IS043	KUMAR PRIYADARSHI	Priyadarshi
				1SG13IS048	MANISH KUMAR	Manish
				1SG13IS049	MANISH KUMAR	Manish
B11	Group messenger android application	Prof. Ravichandra M	11:15 to 11:30 am	1SG13IS003	ABHISHEK	Abhishek
				1SG13IS009	AMIT SINGH	Amit
				1SG13IS044	KUMAR VIKRAM	Vikram
				1SG13IS013	ASHA G N	Ashwin
B12	Re-encryption of cloud email using conditional identity based broadcast proxy	Prof. Prerana Chaithra	11:30 to 11:45 am	1SG13IS017	CHAITRA N	Chaithra
				1SG13IS034	HARSHITHA NATARAJ	Harshitha
				1SG13IS035	HARSHITHA S	Harshitha
				1SG13IS011	ARCHANA C	Archana
B13	Public auditing for shared data with efficient user revocation in cloud	Prof. Sanjay Kumar J H	11:45 to 12:00 pm	1SG13IS020	CHHAVI ANUPAM	Chhavi
				1SG13IS024	DEVIKA N	Devika
				1SG13IS037	INDRANI R	Indrani
				1SG13IS086	PRIYANKA R	Priyanka
B14	Development of IoT device for traffic management system	Prof. Sanjay Kumar J H	12:00 to 12:15 pm	1SG13IS090	RANJITHA M	Ranjitha
				1SG13IS098	SHAFIYA TABASSUM	Shafiya
				1SG13IS120	USHA N S	Usha

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B22	PRIVACY-PRESERVING SET OPERATION IN BIG DATA FOR CLOUD-ASSISTED CROWDSOURCING	Prof. Sunitha	2:45 to 3:00 pm	1SG13IS081	POORNIMA M	Poornima M
				1SG13IS100	SHALINI S R	Shalini S R
				1SG13IS112	SINDHU D R	Sindhu D R
				1SG13IS117	SWETHA D	Swetha D
B23	Information compression of big data using SP theory of intelligence	Prof. Vijay Kumar F G	3:00 to 3:15 pm	1SG13IS067	NISARGA N	Nisarga N
				1SG13IS073	PALLAVI B	Pallavi B
				1SG13IS121	USHA R	Usha R
				1SG13IS407	VIKAS KUMAR	Vikas Kumar
B24	SAEMS:SMART attendance and event management system for college	Prof. Vijay Kumar F G	3:15 to 3:30 pm	1SG13IS082	PRAJWAL V SHETTY	Prajwal V Shetty
				1SG13IS093	SAGAR S	Sagar S
				1SG13IS103	SHASHIDHAR G JINAGA	Shashidhar G Jinaga
				1SG13IS111	SINDHOORA HEGDE	Sindhoora Hegde
B25	A threshold multi authority access control system in public cloud storage	Prof. Vijay Kumar F G	3:30 to 3:45 pm	1SG13IS083	PRANEET SINGH	Praneet Singh
				1SG13IS109	SHUBHAM	Shubham
				1SG13IS118	SYED AEZAZ AHMED	Syed Aezaz Ahmed
				1SG13IS123	VISHAL KUMAR	Vishal Kumar

Project Coordinator

Prof. Prerana Chaithra

Prof. Gayathri R.

HOD

Department of IT

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Sapthagiri College of Engineering
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Bangalore-560 091

APTHAGIRI COLLEGE OF ENGINEERING
Department of Electronics and Communication
8th semester -PROJECT LIST
Academic Year 2016-17

Sl.No.	Batch No.	USN	Students Name	Project Title	Guides	
1.	1	Akshatha V.P.	1SG13EC401	Design and implementation of a miniaturised ECG System with Bluetooth connectivity <i>Weekly once</i>	Mrs.Sandhya Rani M.H.& Ms. Varshini K	
2.		Chaitra G.C.	1SG13EC407			
3.		Shruthi B.J.	1SG10EC080			
4.	2	A. Nithin Kumar	1SG13EC001	Query Adaptive object search using object proposals and shape aware descriptors	Mr. Satish Murthy <i>Literature Review</i>	<i>features for RGB features extracted</i>
5.		Chithra H.S	1SG13EC027			
6.		Kavana S. Theertha	1SG13EC039			
7.	3	Raju B.L.	1SG13EC129	Fuzzy filters for noise reduction in color images	Mrs. Agalya P.& Mrs. Chaitra P.	<i>Implemented mean, median Adaptive median Wiener filter in matlab</i>
8.		Komala B	1SG13EC042			
9.		Kavyashree K.T.	1SG13EC040			
10.	4	Arpitha H.S.	1SG13EC021	Image compression using lifting based wavelet transform coupled with SPIHT algorithm	Mrs. Shobha S.& Suma C.	<i>Completed lifting based wavelet for</i>
11.		Aishwarya R.	1SG13EC007			
12.		Ambika R.B.	1SG13EC014			
13.	5	Kalpna K.	1SG13EC036	Implementation of Reed Solomon encoder in Matlab	Mrs. Sasmita Mohapatra & Ms. Anitha Murthy	
14.		Nancy M.	1SG13EC059			
15.		Priyanka G	1SG13EC077			
16.	6	Shruthi B.	1SG13EC104	Li-Fi based intelligent voice communication	Mr. Ravi Shankar M.N.& Mrs.Vijaya Lakshmi	<i>coding not clear components & procedure. switches extra</i>
17.		Swati Chougula	1SG14EC420			
18.		Anjali Raj	1SG13EC015			
19.	7	Archana Panigrahi	1SG13EC018	Real time cost Effective video oculographic system to assist the movement of the paralysed.	Mrs. Shobha H.	
20.		Harsh Kothari	1SG13EC033			
21.		Kushbu	1SG13EC041			
22.	8	Priya B.U	1SG13EC073	M2M architecture for intelligent public transit	Mrs. Sudha M.S.	<i>Tested ARcam LCD, RFID</i>
23.		Sahana N	1SG13EC094			
24.		Shreya K Gurikar	1SG13EC103			
25.	9	Preeti K.	1SG14EC410	Bluetooth embedded robot for ploughing, seeding and grass cutting powered by solar energy	Mrs. Suma V Shetty	
26.		Premanjali V.	1SG14EC411			
27.		Soujanya G.A.	1SG14EC417			
28.	10	Prajwala S.	1SG12EC072	Automated Book picking Robot for libraries	Mrs. Prathibha T.	
29.		V. Meghana menon	1SG13EC117			
30.		Srimoye Sanjoy Paul	1SG13EC110			
31.		Sukhpreeth Kaur	1SG13EC111			
32.		Roopa Aishwarya T. B.	1SG13EC092			

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74.	21	Rafi	JEC418	Power Line Communication based Meter Reading with IOT Home Automation	✓	Mr. Satish Murthy	
75.		Suprith M.	ISG13EC113				
76.		Venkatesh	ISG13EC120				
77.		Yeshwant	ISG13EC125				
78.	22	Abhishek N.R.	ISG13EC005	High Speed IEEE 754 Quadruple precision floating point Multiplier using verilog.	✓	Mrs. Agalya P.	
79.		Adarsh S.	ISG13EC006				
80.		Manisha S.	ISG13EC053				
81.		Meghana H.V.	ISG13EC054				
82.	23	Soniya Yadav	ISG13EC108	RFID and zigbee based Library management	✓	Mrs. Shobha S.	
83.		Priyanka N.H.	ISG13EC079				
84.		Pruthvi U.	ISG13EC080				
85.		Shyam Sebastin	ISG13EC106				
86.	24	Kushal Gowda	ISG13EC043	IOT based autonomous intelligent POD for military purpose	✓	Mrs. Sasmita mohapatra	no significant work configuration possible
87.		Nithin J	ISG13EC065				
88.		Yogesh N	ISG12EC120				
89.		Diwakara	ISG14EC404				
90.	25	Priyanka M.	ISG13EC078	Smart campus tracker	✓	Mr. Ravi Shankar M.N.	Completed literature review.
91.		Sharan S.	ISG13EC093				
92.		Sushmitha R.	ISG13EC115				
93.		Spoorthi Y.	ISG13EC109				
94.	26	Pravesh P. Jain	ISG13EC071	Area power delay efficient 16 bit carry select adder design		Mrs. Shobha H.	
95.		Rakesh M. Peddi	ISG13EC086				
96.		Rahul Kumar V	ISG13EC082				
97.		Prashant Rajput	ISG13EC070				
98.	27	Karan Bharti	ISG13EC037	Implementation of Redundant carry save adder on FPGA	✓	Mrs. Sudha M.S.	
99.		Neha Kamat	ISG13EC061				
100.		Minakshi Kumari	ISG13EC055				
101.		Namrata	ISG13EC058				
102.	28	Haripriya	ISG13EC035	A forest monitoring system based on GPRS and powered by IOT		Mrs. Suma V.Shetty	
103.		Manasa	ISG13EC050				
104.		Harshitha R.	ISG13EC034				
105.		Aman Makrani	ISG13EC013				
106.	29	Srinivas	ISG14EC418	M/C vision based automatic mango fruit sorting and grading based on maturity level and size	✓	Mrs. Prathibha T.	Blurring & De-blurring
107.		Rakesh Bhat	ISG13EC084				
108.		Ravi	ISG14EC415				
109.		Sachin	ISG14EC416				
110.	30	Sanjay M.E.	ISG13EC096	Virtual shuffling keypad for secure ATMs using fingerprint and GSM technology	✓	Mr. Karthik N. C.	Completed LED 4 touch screen test
111.		Rakesh J	ISG13EC085				
112.		Prajwal P.	ISG13EC067				
113.		Yogesh N	ISG13EC126				