



Ramco Institute of Technology



MechaniZo MagaZine

Issue 2

2015-16

**Department of
Mechanical Engineering**



RAMCO INSTITUTE OF TECHNOLOGY

COLLEGE VISION

To evolve as an Institute of international repute in offering high-quality technical education, Research and extension programmes in order to create knowledgeable, professionally competent and skilled Engineers and Technologists capable of working in multi-disciplinary environment to cater to the societal needs.

COLLEGE MISSION

To accomplish its unique vision, the Institute has a far-reaching mission that aims:

- To offer higher education in Engineering and Technology with highest level of quality, Professionalism and ethical standards
- To equip the students with up-to-date knowledge in cutting-edge technologies, wisdom, creativity and passion for innovation, and life-long learning skills
- To constantly motivate and involve the students and faculty members in the education process for continuously improving their performance to achieve excellence.

DEPARTMENT OF MECHANICAL ENGINEERING

VISION

Recognized nationally for its quality education, research and extension programmes in Mechanical Engineering

MISSION

- Producing technically competent and socially responsible mechanical engineers by imparting knowledge of cutting edge technologies and contemporary issues.
- Encouraging students for active participation in Co-curricular and Extra-curricular activities.
- Motivate students to pursue higher studies and research.
- Establish centres of excellence in promising fields of Mechanical Engineering.
- Develop linkages with industries, R&D organizations and leading educational institutions in India and abroad for achieving excellence in teaching, research and consultancy activities.

EDITORIAL MESSAGE

We are happy to present the second issue of the yearly magazine of our department's technical students' association named "RIT-MECHANIZO", which is the measure of progress that highlights the academic and non-academic activities of both the staff and students of the department for the academic year 2015-2016. During every semester, the calendar of events is prepared which implicitly incorporates all the curricular and extra-curricular activities of the department and is followed meticulously without any deviation. Most significant developments include i) Inauguration of RIT - Harita Centre of Excellence an "Advanced Learning Centre for CATIA and Interdisciplinary Collaboration on New Product Development Research Centre" ii) Participating and winning the First prize in Hon'ble Chief Minister's Award for Excellence in e-Governance for the year 2015-16 conducted on 23.10.2015 by District e-Governance Society, Virudhunagar. Project Title: TARS (Tamil Nadu App for Ration Shop) iii) Registering 79 students as member in Society for Automotive Engineers in SAEINDIA Collegiate Club of RIT and iv) Signing of MoU with TVS Training and Services Limited, Chennai for Advanced Training Program (ATP). Wish you all the best.

EDITORIAL TEAM

Dr. S Rajakarunakaran HOD/Mech

Mr. P Suresh Kumar AP/Mech

Mr. M Lakshmanan AP/Mech

Mr. S Vaikundam III Year Mech

Mr. M B Vyas Narayana III Year Mech

Ms. S R Sivasankari II Year Mech

PROGRAMME ORGANIZED

ASSOCIATION INAUGURATION

The department's association was inaugurated with the name of RIT - MECHANIZO and the club for SAE was started as "SAEINDIA- RIT Collegiate Club" on



Releasing SAE- RIT Collegiate Club Logo

04.07.2015 (Saturday). Dr. T. Ram Prabhu, Ph.D., Scientist (Materials), Defence R & D Organization (DRDO), Ministry of Defence, Bengaluru was the chief guest of the function. He addressed the students about the future of Mechanical Engineering and Materials Engineering with the need and importance of research in Engineering Career.

FDTP ON GE6152- ENGINEERING GRAPHICS

Three days Faculty Development Training Program on GE6152- engineering Graphics was conducted between 09.06.2015 to 11.06.2015. Dr. A.Vasanthanadhan, Prof./ Mech, Mepco Schlenk Engineering College, Sivakasi and Dr.G.Kumaraguruparan, Prof./ Mech, Thiagarajar College of Engineering,

Madurai was the resource persons delivered the various concepts of engineering graphics in a clear manner.



Dr.A.Vasanthanadhan delivering the concept

INTENSIVE TRAINING ON 'CNC MACHINE'. (TURNING AND MILLING)

An intensive training program on 'CNC Machine' was conducted in CAM Lab during 26.05.2016 to 30.06.2015. Mr.P.R.Praveen Raj, MTAB ENGINEERS (P) LTD was the resource person addressed



Faculty programming on CNC Machine

about CNC programming and applications related to academics as well as industries.

GUEST LECTURE ON “HOW TO ACE A JOB INTERVIEW IN POWER PLANT SECTOR”

A Guest lecture on how to ace a job interview in power plant sector was organized on 11.07.2015, the resource person was Mr. Peer Mohammed, HRA, Coastal Energen Pvt Ltd, Tuticorin. He Explained the students about the industries related to power plant sector and he guided the students how to easily tackle the interview in their future.

FIRE SAFETY TRAINING

All Lab Technicians of Mechanical Engineering Department have attended one day fire and safety training on 29.07.2015. This program was organized by DGM (Admin) Ramco Institute of Technology by inviting safety professional from Ramco Mills Limited, Rajapalayam.

GUEST LECTURE ON “POWER PLANT ENGINEERING”

A Special lecture on Power plant Engineering was delivered to the students on 01.08.2015 at EEE seminar hall. Mr. Ashok Kumar Assistant Manager Electrical, Coastal Energen Pvt Ltd, Tuticorin was the resource person and delivered some valuable lecture about power plant engineering current status and deliver how the power plant will work and their features to third year Mechanical and Electrical students attend this guest lecture.

CENTRE FOR INNOVATION INAUGURAL & GUEST LECTURE ON ENGINEERING MATERIALS

All Top 10 Students of III Year and II Year A & B section of Mechanical Engineering are attended the lecture that was given by Dr. R.Jayavel Director Centre for Research Anna University Chennai. This program was organized on 08.08.2015. He explained the students about the composite materials, recent trends in composite materials, and also he explained about the current research going on in anna university Chennai.

ICTACT- FACULTY DEVELOPMENT PROGRAM ON AUTODESK AUTOCAD 2015

Faculty Development Program on Autodesk AutoCAD 2015 was conducted from



Faculty participants for the development program

12.10.2015 to 16.10.2015 in Mechanical CAD Lab, RIT along with ICTACT. Participants from various colleges was

attended this program to enrich their knowledge on Autodesk AutoCAD 2015.

GUEST LECTURE ON “ENGINEERING GRAPHICS”

A Guest lecture on Engineering Graphics was conducted to all first year students during 12.11.2015-13.11.2015. Prof. N.S.Parthasarathy, Former. Director, Centre for Research, Anna University, Chennai was shared his knowledge on various concepts in Engineering graphics very effective manners for all first Year students.

GUEST LECTURE ON “AUTOMOBILE ENGINEERING-ELECTRIC AND HYBRID VEHICLES AND FUEL CELLS”

A guest lecture on Automobile engineering—electric and hybrid vehicles and fuel cells was given by Dr. P.Karthikeyan Associate Professor Dept. of Automobile Engineering, PSG College of Technology,



Dr. P.Karthikeyan explaining the concept to the students

Coimbatore on 12.03.2016. He Explained about latest Alternative Fuels and work-

ing of hybrid vehicle and fuel cells. He also explained the process about the complete fuel cells.

GUEST LECTURE ON “FINITE ELEMENT ANALYSIS-TWO DIMENSIONAL VECTOR VARIABLE PROBLEMS”

A guest lecture on “Finite Element Analysis-Two Dimensional Vector Variable Problems” was given Dr. S.Shankar, Associate Professor, Dept. of Mechatronics, Kongu Engineering



Dr. S.Shankar explaining the concept to the students

college, Perundurai on 26.03.2016. He gave a brief about the basics of finite element analysis and also he thought the students how they have to approach problems in easy manner. He also showed the students about his research areas. He explained the important of finite element analysis in the medical field by replacing the bones by Mechanical structure.

ISO Awareness and Internal Auditor Training on ISO 9001: 2015

In order to improve the documentation and to enhance the overall performance in our academic system and administration, we need to implement ISO Quality Management System from the academic year 2016-17. By implementing quality management system, our college could effectively standardize the Teaching-Learning Process documentation and also strengthen the relationship with all stakeholders of our institution as required to meet the required to meet the norms of NBA. Some of the benefits of implementing ISO Certification: i) Demonstrate documented quality management system i.e. procedures, formats and manuals ii) Obtain global recognition with internationally accepted quality standard, iii) Improve internal communication and iv) Set a baseline for continuous improvement.

In connection with this, we invited Mr. V.Viswanathan, Deputy Manager, TUV



The Faculty Participants who attend ISO awareness program

Rheinland (India) Private Limited, Coimbatore to conduct Awareness and Internal Auditor Training on ISO 9001: 2015 to the selected 26 faculty members of our Institution from 18.12.2015 to 19.12.2015. The following four faculty members from the department of Mechanical Engineering were participated and completed this training successfully 1) Prof.S.Rajakarunakaran; 2) Mr. P.Sureshkumar, AP/Mech; 3) Mr. M.Lakshmanan, AP/Mech and 4) Mr. C.Gururaj, AP/Mech.

Inauguration of RIT - Harita Centre of Excellence

RIT - Harita Centre of Excellence an “Advanced Learning Centre for CATIA and Interdisciplinary Collaboration on New Product Development Research Centre” was inaugurated on 20.01.2016 at Ramco Institute of Technology (RIT), Rajapalayam. The Memorandum of Understanding (MoU) was signed by Mr. Shankaranarayanan, Chief Operating Officer, Harita Tech serv Ltd., Chennai and Dr.R.V.MahendraGowda, Principal, Ramco Institute of Technology, Rajapalayam. “The objective of the centre is to train faculty and students in the state of art research centre on CAD, CAM, PLM, Digital Manufacturing and Technical Documentation.”

The students of RIT will be engaged in joint project work under the supervision of experts from Harita and RIT faculty members. Harita will provide necessary



Mr. Shankaranarayanan inaugurating RIT_TV5-HARITA lab

Industry exposure to the students and faculty of RIT. Students will be trained on practical problems, as the company will provide real life work exposure by selecting them for internship. The trained students will be industry ready and will be productive in their chosen profession after their graduation. Also the students will be recruited based on their recruitment policy.

Academic Achievers for the Academic year 2015-16

III YEAR MECHANICAL ENGINEERING

NAME OF THE STUDENT	CGPA	POSITION IN THE CLASS
MOHAMMED JASSIM J	8.82	I
ARI RAMALINGAM P	8.65	II
ABDULLA SHAH I	8.63	III
VENKATESH K	8.4	IV
THYVILAKATHU ABIN BABY	8.39	V

II YEAR MECHANICAL ENGINEERING

NAME OF THE STUDENT	CGPA	POSITION IN THE CLASS
MUTHU SARAVANAN M	9.03	I
DINESH KUMAR R	8.99	II
SIVA SANKARI S R	8.73	III
VEERARAGAVAN K	8.57	IV
SURESHKUMAR P G	8.55	V

I YEAR MECHANICAL ENGINEERING

NAME OF THE STUDENT	CGPA	POSITION IN THE CLASS
MOHAN RAJ M	9	I
SENTHILKUMAR P	8.81	II
KEERTHANA P	8.73	III
RAM PRAKASH R	8.69	IV
SANKAR RAGA DEVA T	8.69	V

STUDENTS PARTICIPATIONS / ACHIEVEMENTS

Co & Extra-Curricular Activities

- Professional Competency Enhancement programme for II year Students organized by **Innovative Academy for Manpower Excellence**, Chennai on 24th–30th June, 2015.
- Employability Skill Training for III year Students have organized by **Innovative Academy for Manpower Excellence**, Chennai on 24th–30th June, 2015.
- **D.Ganapathi Subramaniam & R.Paramasivam** III year Mechanical Engineering students have attended **ICTACT Youth Entrepreneurship Summit 2015 (YES 2015)** Conducted by **ICT Academy of Tamilnadu** at Raja Muthaiah Hall, Madurai on 29th July, 2015
- **R.Paramasivam** III Year Mechanical Engineering Student has participated Workshop on **Computational Fluid dynamics in a Techfest** Conducted by **Amalgam 2015**, Materials and Metallurgy Department, Indian Institute of Technology, Madras on 22nd August, 2015.
- **Maguluri Akhil, S.Vaikundam, G.Nandha Kumar, P.Saravana Kumar, E.Praveen Raj, C.Ilangathir, J.Mohammed Jassim, S.Binusam** Mechanical Engineering Students have attended **ACCELERACECERS 2K15** Organized by **R/C Club of KEC , Department of Mechanical Engineering**, Kongu Engineering



College on 22nd August, 2015.

- **M.Vigneshwar**, II Year Mechanical Engineering student has selected for the next level competition in **ICTACT Youth Talk 2015 and Youth Present 2015 Competition** Conducted by Sethu Institute of Technology & Vikram College of Engineering on 07th & 08th Sep, 2015.

- **Maguluri Akhil, J.Mohammed Jassim**, of III Year Mechanical Engineering students have participated **PHANTASM'15** the Event of RC Race – 5th National Level Technical Fest on 09th Sep, 2015.

- **M.Vigneshwar**, II Year Mechanical Engineering student has selected to the next level competition in **ICTACT Youth Talk 2015 Regional Pre- Finals** Conducted by Sethu Institute of Technology on 10th Sep, 2015.

- **R.Ebanesther, B.Vengalabothi** of III Year Mechanical Engineering student , **P.G.Suresh Kumar, R.Dinesh Kumar** of II Year Mechanical Engineering Students have participated **ICTACT Youth Leadership Summit 2015** organized by ICTACT, Codissia, Coimbatore on 23rd Sep, 2015.
- **R.Cibi raj, R.Gokul Krishna, B.Muthu Ganesh, M.B.Vyas Narayana, R.Vineeth Kumar, D.Ganesh Ram, P.Ganga Prasad**, III Year Mechanical Engineering Students have participated **Aero Dominator Event, Robo GP, RC Plane** Conducted by VIT Vellore on 25 & 26th Sep, 2015.
- **J.Mohammed Jassim, G.Nandha Kumar**, III Year Mechanical Engineering Students have participated State Level DST sponsored **Maths Quiz (MAQ) Competition** for Engineering College Students Conducted by Department of Mathematics, Vellamal College of Engineering and Technology, Madurai on 26th Sep, 2015.
- **P.Keerthana, G.S.Ajay Kirubakar, B.Ashok Babu, V.Gowtham Chakaravarthi, C.Jeeva Ganesh, S.Kalai Sriram**, I Year Mechanical Engineering students have **won a Prize** during the Inauguration of RIT-Tamil Mandram, Celebration of Gandhi Jeyanthi, Thiruvalluvar Day at Ramco Institute of Technology on 2nd Oct, 2015.
- **S.Harish Kumar, P.Keerthana, R.N. Sri Vignesh**, I Year Mechanical Engineering Students have participated **“Youth Awakening Day” Essay/ Elocution** Competition Conducted by V.S.V.N Polytechnic College, Virudhunagar on 15th Oct, 2015.
- **M.Vigneswar and Sivasankari**, II Year Mechanical Engineering Students have attended Online Essay Competition – Celebration of 8th National Education Day at Language lab, RIT on 27th Nov, 2015.
- **S.R.Sivasankari**, II year Mechanical Engineering student has attended workshop on **“Current Trends in Nanotechnology”** Conducted by Mepco Schlenk Engineering College, Sivakasi on 05 & 06th Feb, 2016.
- **R.Balaji, R.Ajay Balaji**, II year Mechanical Engineering students have attended National Level Technical Symposium **“INTECHO’16** Conducted by Madras Institute of Technology, Anna University, Chennai on 12 & 13th Feb, 2016.
- **M.Praveen Kumar, B.Raghuram, K.Rajadharmaalingam, M.Subash, K.G.Subba Raja, A.Surya, M.Vijaysakthi**, II year Mechanical Engineering students have attended **Anokha’16** A National Level Technical Festival conducted by Amrita School of Engineering on 18 to 20th Feb, 2016.
- **Binu Sam S; Kishore Kumar B; Marimuthu K; Praveen Kumar M; Subash M; Subba Raja K G; Vijaysakthi M; Raghuram B; Rajadharmaalingam K; Surya A**, II year Mechanical Engineering Students have attended **Automobile Training Program “Motor Bike Overhauling”**

at Amirta School of Engineering on 19th and 20th Feb, 2016.

- **Sujith Balaji R; Sureshkumar P G; Tamil Mani V; Venkatesh M; Vigneshwar M; Subash M; Subba Raja K G; Vijaysakthi M**, II year Mechanical Engineering students have attended **Workshop on Transmission System** Conducted by Govt College of Technology on 20th Feb, 2016.
- **C.A.Karthikeyan, B.Muthuganesh, S.R.Sivasankari and Vengadesh,**



Student Participant who participated in cultural event

Mechanical Engineering Students have actively participated in **Cultural Competition** at SRNM College, Sattur on 21st Feb, 2016.

- **Thyvilakathu Abin Baby; Santhanaraj G; Abinav kumar M; Balaji S; Ariramalingam P; Sunil kumar K; Veeramani M; Subburam J; Selvamani G; Siva ananth PandiyanA**, III Year Mechanical Engineering Students have attended One Day International Program on Future Trends in IC ENGINES **“CRANK-2016”** Conducted by TOP ENGINEERS on 21st Feb, 2016.
- **P.Balasundar, R.Sankar ram, I.Rishikumar, S.Reghu Balan, R.Premkumar, K.Rajadharmalingam,**

G.Selvaraj, G.Ravikumar, D.Sivaganesh, G.Ram Shankar, N.Naga



Student undergoing hands on experience

Arjun, B.Safiudeen, M.Mathankumar, K.Marimuthu, B.Sibish Ragul, A.Surya, S.Manikandan, Selvakumar, II Year Mechanical Engineering Students have attended One Day International Program on Future Trends in IC ENGINES **“CRANK-2016”** Conducted by TOP ENGINEERS on 21st Feb 2016.

Nineteen Students of Mechanical Engineering students have actively participated in **LOGO Designing with Caption for Preventing Sexual Harassment** conducted by Prevention of Sexual Harassment Cell (POSH), Anna University, Chennai on 26th Feb, 2016.

Ajay Rajappan S; Kesavan R; Kumarandevan M, II year Mechanical Engineering students attended in National Level Symposium – **IGNITE'16** conducted by National Engineering College, Kovilpatti on 11th March, 2016.

- **Manojkumar M; Natarajan M; Sadiq Abdul Jabbar Manji M; Senthilkumar P; Suresh Moorthy M; Thetchina Moorthy N,** I year Mechanical Engineering students have participated in Inter College Technical Symposium “**COMPONEC-YAKSHA’16**” conducted by National Engineering College, Kovilpatti on 23rd & 24th March, 2016.
- **Mohammed Jassim J** ,III year Mechanical Engineering students has participated **Tata Crucible campus Quiz 2016** conducted by National Institute of Technology, Trichy on 25th March, 2016.

ISTE-Srinivasa Ramanujan Mathematical Competitions For the Academic year 2015-16 Examination

The Following Students of the Department of Mechanical Engineering attended the Mathematical competition,

VEERARAGAVAN K (REG161011881)

ESAKKI RAJA P (REG161012256)

SURESHKUMAR P G (REG161012258)

SUDALAIMANI M (REG161012261)

SIVASANKARI S R (REG161012264)

BOOPATHIRRAJA A (REG161012276)

VAIRA MUTHU M (REG161012289)

STANLEY JONES A (REG161012291)

Among the above students, Ms. S R Sivasankari (REG161012264) has been selected to the next level competition.

SAEINDIA

RAMCO INSTITUTE OF TECHNOLOGY COLLEGIATE CLUB

OFFICE BEARER OF SAEINDIA COLLEGIATE CLUB

1. Senior Faculty Advisor : Mr. Lakshmanan M, AP/Mech
2. Additional Faculty Advisor : Mr. Arockia Raja G, AP/Mech
3. Student Chairperson : Mr. Ganapathi Subramaniam D, III Year Mech
4. Student Vice-Chairperson : Mr. Jeganathan P, II Year Mech
5. Student Secretary : Mr. Vengalabothi B, III Year Mech
6. Student Treasurer : Mr. Mohammed Jassim J, III Year Mech
7. Student Reception Chair : Ms. Siva Sankari S R, II Year Mech
8. Student Program Chair : Mr. Gopinath K, III Year Mech
9. Student Publicity Chair : Mr. Jeya Yogeshwaran P, II Year Mech
10. Student Membership Chair : Mr. Harikrishna S, III Year Mech

EVENTS AND PROGRAMS

- **D.Ganapathy Subramaniam**, III year Mechanical Engineering Student has attended Executive meeting at Chennai conducted by **SAEINDIA** on 28th June, 2015.

SAEINDIA TIER 1 COMPETITION

SAEINDIA Tier 1 Aero Model Competition was organised in auditorium on 04.07.2015. The flying aero modelling contest was conducted in two rounds. Second year Mechanical engineering students **Ajay Balaji and Balaji got first prize** and Third year Mechanical Engineering students **CibiRaj and Muthu Ganesh got Second prize**.



Participant Launching his model

SAE Tier-I was conducted by RIT- SAEINDIA Collegiate Club & Department of Mechanical Engineering, RIT during

SAEINDIA

RAMCO INSTITUTE OF TECHNOLOGY COLLEGIATE CLUB

- 13.07.2015 to 15.07.2015. The various events are conducted such as Welding, Sheet Metal, Quiz, CNC Turning and Milling, Mechanical Engineering Design CAD, Technical Paper, Business Plan, Prototype Model. The winners have got certificates of appreciation during Valedictory function.
- **J.Mohammed Jassim, K.Venkatesh, C.Ilangathir**, III year Mechanical Engineering attended Engineering New Entrepreneurs (ENE) Program conducted by **SAEINDIA Southern Section** at Chennai Institute of Technology, Chennai on 27th July, 2015.
- **M.B.Vyas Narayana & T. Abin baby** III



Participant receiving certificates

year Mechanical Engineering attended **SAEINDIA TREK PROGRAM** Conducted by SAEINDIA at PET Engg. College on 01st and 02nd of Aug, 2015.

- **D.Ganapathi Subramanian** III Year Mechanical Engineering Student has participated First Review Meeting regarding SAE Student Convention 2015 organized by VIT Vellore on 23rd August, 2015.
- **D.Ganapathi Subramanian** III Year Mechanical Engineering Student has attended **SAEISS Student Convention 2015 Coordinated one of the 43 Events "Sheet Metal"** Conducted by **SAEINDIA** at VIT Vellore, on 18 & 19th Sep, 2015.
- **R.Cibiraj and B.Muthuganesh**, III Year Mechanical Engineering Students have attended Open house meeting – SAE International Aero space Team organized by SAEINDIA office, Chennai on 19th Dec 2015.
- **Raghu Balan S; Ravi Kumar G; Safiudeen B; Sankar Ram R; Sibish Ragul B; Surya R**, II year Mechanical Engineering Students have attended Workshop on **"Current Development in Automobiles"** Conducted by SAEINDIA SKCET Collegiate Club, Sri Krishna College of Engineering & Technology, Coimbatore on 25th Feb, 2016.
- **Vel Soma Sundhar S S; Petchimuthurajan M**, II year Mechanical Engineering students have attended workshop on **"Composite Materials in Automobiles"** Conducted by SAEINDIA SKCET Collegiate Club, Sri Krishna College of Engineering & Technology, Coimbatore on 26th Feb, 2016.

- **Cibi Raj R; Ganeshram D; Gokul Krishna R; Karthikeyan C A; Muthuganesh B; Ramkumar B; Sathish Kumar M; Venkatesh K; Vyas narayanan M B**, III Year Mechanical Engineering Students have attended **SAE Aero Model Competition—Level II** secured **LEVEL 1** conducted by Hindustan University, Chennai on 17 to 19th March, 2016.



Participants with the Aero model

RIT—SAE BAJA TEAM

We have registered for the SAE BAJA Competition organized by Society of Automotive Engineers– India.

FACULTY CO-ORDINATORS : Mr. P.SURESH KUMAR, AP/Mech

Mr. G.AROCKIYA RAJA, AP/Mech

CAPTAIN : Mr. R.PARAMASIVAM III Year Mech

Members of the RIT-SAE BAJA TEAM

P.Ariramalingam	S.R.Sivasankari	P.Jeya Yogeshwaran
M.Abhinav kumar	A.Sivaandha pandiyan	I Alex samman Raj
G.Nandha Kumar	M.Sekar	S.Nirmal Kumar
S.Pradeepkumar	M.Balaganesh	S.Raghubalan
G.Selvamani	M.Muthusurendar	B.Safiudeen
G.Balamurugan	E.Praveen Raj	K.Marikannan
R.Paramasivam	I Abdullashah	D.Sathishkumar
P.Balasundar	J.Subburam	G.Karthikeyan
		M.Thavaguru

RIT—SAE SUPRA TEAM

We have registered for the SAE SUPRA Competition organized by Society of Automotive Engineers—India.

FACULTY CO-ORDINATORS : Dr. S.RAJAKARUNAKARAN HOD/Mech

CAPTAIN : Mr. J.Mohammed Jassim III Year Mech
Mr. Thyvilakathu Abin Baby III Year Mech

TEAM :

III Year Mechanical Engineering

Maguluri akhil

II Year Mechanical Engineering—A

S.Binusam	K.Balaji
M.Ameer Sultan	A.Karuppasamy
M.Deivanayam	M.Praveenkumar
S.Bhavishkumar	P.Esakkiraja
R.Ajithkumar	A.Boopathiraja
N.V.Lakshminarayana	S.Lakshmanan
B.Kishorekumar	A.Jeganathan

II Year Mechanical Engineering—B

M.Petchimuthurajan	B.Raghuram
K.Veeraragavan	G.V.Ramshankar
N.Ramakrishnan	K.Vishnushankar
R.Sujithbalaji	R.Shankar Ram

RIT—SAE EFFI-CYCLE TEAM

We have registered for the SAE SUPRA Competition organized by Society of Automotive Engineers—India.

FACULTY CO-ORDINATORS : Mr.M.Lakshmanan AP/Mech

CAPTAIN : Mr. D.Ganapathi subramaniam III Year Mech

II Year Mechanical Engineering—A

R.Kowshiga gopal
M.Karthick
R.Dineshkumar
Muthusaravanan
Mariswaran

II Year Mechanical Engineering—B

J.Vigneshkumar
A.Stanley Jones
M.Vairamuthu
M.Sudalaimani

The Following Students of the Department of Mechanical Engineering Registered as members in our SAE India RIT Collegiate Club for the academic year 2015-16.

AJAY BALAJI
 AJITH KUMAR
 ASWATH RAJA
 BALAJI
 BINU SAM
 BOOPATHY RAJA
 DHINESH KUMAR
 ESAKKI RAJA
 GOKUL PRASATH
 RAGHURAM
 RAGHU BALAN
 SANKAR RAM
 SELVA KUMAR
 PANDI KUMAR
 RAJAH DHARMALINGAM
 SUJITH BALAJI
 VEERARAGAVAN
 VISHNU SANKAR
 SIVA SANKARI
 KARTHIKEYAN
 RAMKUMAR
 RAMESH
 VEERAMANI
 SELVAMANI
 VENGALABOTHI
 MADASAMY
 SARAVANAKUMAR
 VENKATESH
 VYAS NARAYANA
 PEACHIMUTHU
 MOHAMMED JASSIM
 THYVILAKATHU ABIN BABY
 GANAPATHI SUBRAMANIAM

RAGUL RAJA
 HASSAN BAJIL
 MUTHU SARAVANAN
 PRAVEEN KUMAR
 LAKSHMANAN
 LAKSHMI NARAYANAN
 KOWSIGA GOPAL
 MARISWARAN
 HARISH KUMAR
 KISHORE KUMAR
 HARISH
 KARTHICK
 MATHAN KUMAR
 JEYA YOGESHWARAN
 NIRMAL KUMR
 PREM KUMAR
 KARUPPASAMY
 JEGANATHAN
 HARISH KUMAR
 PARAMASIVAM
 MUTHU GANESH
 ILANGATHIR
 MURUGESAN
 HARI KRISHNA
 GANGA PRASAD
 MURUGHIAPANDIAN
 KATHICK GOWTHAM
 CIBI RAJ
 SATHISH KUMAR
 GOPINATH
 GANESHRAM
 GOKUL KRISHNA
 BALAJI
 VISHNUSANKAR

STUDENTS' TECHNICAL ASSOCIATION RIT-MECHANIZO

Executive committee constitution for the year 2015-16

President	: Dr. S.Rajakarunakaran HOD/Mech
Faculty Advisor	: Mr. J.Jerold John Britto AP/Mech
Secretary	: Mr. R.Gokul Krishna III Year Mech
Joint Secretary	: Mr. R.Ajith Kumar II Year Mech
Class Representatives	: Mr. I.Abdullashah III Year Mech Mr. P.Ariramalingam III Year Mech Mr. Thyvilakathu Abin Baby III Year Mech Mr. R.Kowshika Gopal II Year Mech Mr. M.Madhankumar II Year Mech Mr. M. Sudalaimani II Year Mech Mr. P.G. Sureshkumar II Year Mech

Student Co-Ordinators

Website Committee	: Mr. S.Vaikundam III Year Mech Mr. M.Ashok kumar II Year Mech Mr. B.Safiudeen II Year Mech
Department Magazine	: Mr. R.Ebanesther III Year Mech Mr. R. Karanagaraj II Year Mech Mr. Subramaniam Dinesh kumar II Year Mech
Department Professional Society	: Mr.D.Ganapthy Subramaniam III Year Mech Mr. M.Karthick II Year Mech Mr. K.Veera Ragavan II Year Mech
Certification Courses	: Mr. Mauluri Akhil III Year Mech Mr. M Madhan Kumar II Year Mech Mr. M.Sudalai Mani II Year Mech

STUDENTS' TECHNICAL ASSOCIATION RIT-MECHANIZO

Events/ Programmes : Mr. M.B. Vyas Narayana III Year Mech
Mr. P.Jeya yogeshwaran II Year Mech
Mr. R.Sri Ram Mohan II Year Mech

Value Added Courses : Mr. P.Ganga Prasad III Year Mech
Mr. N.V.Lakshmi Narayanan II Year Mech
Mr. D.Vignesh II Year Mech

In plant Training : Mr. D.Ganeshram III Year Mech
Mr. Esakki Raja II Year Mech
Mr. P. G.Suresh Kumar II Year Mech

Industrial Visit : Mr.S.Balaji III Year Mech
Mr. S.Lakshmanan II Year Mech
Mr. M.Vairamuthu II Year Mech

Discipline Committee : Mr. I.Abdullashah III Year Mech
Mr. P.Ariramalingam III Year Mech
Mr. Thyvilakathu Abin Baby III Year Mech
Mr. R.Kowshika Gopal II Year Mech
Mr. M.Madhankumar II Year Mech
Mr. M. Sudalaimani II Year Mech
Mr. P.G. Sureshkumar II Year Mech

CLASS COMMITTEE MEMBERS FOR THE ACADEMIC YEAR 2015-16

III YEAR MECHANICAL ENGINEERING
ABDULLA SHAH I
ARI RAMALINGAM P
HARIKRISHNA
SEKAR M
VENGALABOTHI B
THYVILAKATHU ABIN BABY

II YEAR "A" SEC MECHANICAL ENGINEERING
BINUSAM S
DHARMA RAJ D
DINESH KUMAR R
KOWSIGA GOPAL R
PADMASUBHASH S
JEYAKUMAR J
KARTHIKEYAN G

II YEAR "B" SEC MECHANICAL ENGINEERING
RAJKUMAR M
SAFIUDEEN B
PETCHIMUTHURAJAN M
SUDALAIMANI M
SUBRAMANIAM DINESH KUMAR
SIVA SANKARI S R
SURESH KUMAR P G
VIVEKKANNAN G

I YEAR "A" SEC MECHANICAL ENGINEERING
ANANDHA RAJ S
DEIVA PRAKASH S
JANANI SUDHA M D
KARTHIKEYAN V S
MOHAMED MEERAN S
NILAVARASU M

I YEAR "B" SEC MECHANICAL ENGINEERING
NIRMAL RAJ B
PRASANNA RAJAN M
RAKESH R
SRENIVASAN K P
THETCHINA MOORTHY N
VASANTH M S

**TRAINING AND PLACEMENT CO-ORDINATOR OF DEPARTMENT OF
MECHANICAL ENGINEERING FOR ACADEMIC YEAR 2015-16**

FACULTY CO-ORDINATOR :

P SURESH KUMAR AP/MECH

STUDENT CO-ORDINATORS :

III YEAR MECHANICAL

M B VYAS NARAYANA

S PRADEEP KUMAR

II YEAR MECHANICAL

M MUTHU SARAVANAN

R KOWSIGA GOPAL

S R SIVA SANKARI

SUBRAMANIAM DINESH KUMAR

II YEAR MECHANICAL

R KEERTHANA

S SHANMUGAM

T SHANKAR RAGA DEVA

M MOHAN RAJ

ACHIEVEMENTS

- **S.Vaikundam, R.Venkatesh, G.Radha Krishnan, M.Sathish Kumar and D.Ganapathi Subramaniam**, III year Mechanical Engineering students received **First prize in Hon'ble Chief Minister's Award for Excellence in e-Governance for the year 2015-16** conducted by District e-Governance Society, Virudhunagar District held on 23.10.2015.

project Title: TARS (Tamil Nadu App for Ration Shop).



Receiving Cash prize with certificates from Virudhunagar District Collector

- **M.B.Vyas Narayana** got **Second prize in mech lathe, Subburam. J** Secured **Second Prize in CAD Modelling & S.Arumugarajan** got **Second Prize in Component assembly & Subramanian.V; Selvamani G** have participated in National Level Techno-Management Symposium "**Gyan Mitra'16**" Conducted by Mepco Schlenk Engineering College on 20th Feb, 2016.
- **Maguluri Akhil, C.Ilangathir, M.Saravanakumar, M.Mathan Kumar , J.Mohammed Jassim**, Mechanical Engineering Students have Secured **Second Prize in "NITTro" Pragyam** the International Techno-Management Organization conducted by NIT, Trichy on 25 to 28th Feb, 2016.

- **Cibi Raj R; Vyas Narayana M B; Ganeshram D; Gokul Krishna R; Karthikeyan C A; Muthuganesh B; Ramkumar B; Sathish Kumar M; Venkatesh K**, III Year Mechanical Engineering are attended **SAE Aero Model Competition—Level II** secured **Design award** in the competition conducted by Hindustan University, Chennai on 17 to 19th March, 2016.
- **Vyas Narayana M B, Peachimuthu S**, III Year mechanical Engineering have got **Third prize** in “**Final Destination (Death Race 2.0)**” conducted by **Pinnacle 2016 Anna University** on 11 & 12th March, 2016.



Students competing at Anna University Chennai

- **G.S.Ajay Kirubahar and B.Ashokbabu**, are presented a paper have won **first prize** for their titled ,”Electricity Generation from Piezo Electric Tile”, National Level Technical Symposium “**ELDIGNERIA’16**” organized by P.S.R. Engineering College, Sivakasi on 25th Feb, 2016.
- **Selvaraj G; Sri Ram J; Stanley Jones A; Vigneshkumar J**, II year Mechanical Engineering students have win **First prize in Brain Storming** at National Level Technical Colloquium “**PartAAA 2k16**” conducted by AAA College of Engineering, Sivakasi on 23rd March, 2016.

TVS—ADAVANCED TRAINING PROGRAM

Signing of MoU with TVS Training and Services Limited, Chennai for Advanced Training Program (ATP). 29 students from third year Mechanical Engineering were selected and completed their Phase I-ATP conducted by TVS Training and Services Limited, Chennai from 19.01.2016 to 24.01.2016. The students lists are,

Abdulla Shah I
Abinav Kumar M
Ari Ramalingam P
Bala Sundar P
Charles Benadict S
Cibi Raj R
Ganapathi Subramaniam D
Ganeshram D
Gokul Krishna R
Gopinath K
Harikrishna S
Ilangathir C
Jeneston Joshwa I
Karthick Gowtham M
Karthikeyan C A
Madasamy T
Mohammed Jassim J
Murughiah Pandian A
Nandha Kumar G
Paramasivam R
Pradeep Kumar S
Radhakrishnan G
Ramesh R
Venkatesh K
Arumugarajan S
Muthusurendar M
Thyvilakathu Abin Baby
Vyas Narayana M B

Paper Presented in Symposium/ Seminars /Conference by Students

- **G.S.Ajay Kirubahar and B.Ashokbabu**, presented a paper titled ,”Electricity Generation from Piezo Electric Tile”, National Level Technical Symposium “ELDIGNERIA’16” organized by P.S.R. Engineering College, Sivakasi on 25thFeb, 2016.
- **J.Vigneshkumar**, presented a paper titled ,”Neutrino Oscillations”, National Science Day organized by Ramco Institute of Technology on 27thfeb, 2016.
- **M.Kumaran**, presented a paper titled ,”Cylinder Deactivation”, National Level Symposium – IGNITE’16 organized by National Engineering College, Kovilpatti on 11thMarch, 2016.
- **S.Ajay Rajappan and R.Kesavan** , presented a paper titled ,”Hydrogen CNG Blend”, National Level Symposium – IGNITE’16 organized by National Engineering College, Kovilpatti on 11thMarch, 2016.
- **J.Vignesh kumar and A.Stanley Jones** ,presented a paper titled , “Application of Kinematic Machinery & Material Science “National Level Technical Colloquium – PARTAAA2k16 organized by AAA College of Engineering & Technology, Sivakasi on 23rd March, 2016.
- **M.Natarajan** ,presented a paper titled, “Suspension System”, An Inter College Technical Symposium “COMPONEC-YAKSHA’16” organized by National Engineering College, Kovilpatti on 23rd and 24th March, 2016.
- **N.Thetchina Moorthy & M.Manoj Kumar** ,presented a paper titled, “Robotics”, An Inter College Technical Symposium “COMPONEC-YAKSHA’16” organized by National Engineering College, Kovilpatti on 23rd and 24th March, 2016.

Paper Publishing in Conferences and Journals by Faculty Members

- **J.Jerlod John Britto**, A.Vasanthanathan, Dr.P.Nagaraj , Damage Detection of Cost effective CFRP Composite structure using Fiber Optic Sensor under Dynamic Load , International Journal of Advances in Engineering Research Vol.No.11, Issue No.II, 2016 .
- P. Pitchipoo, D.S. Vincent, N. Rajini and **S. Rajakarunakaran** , Fuzzy Analytical Hierarchy Process Based Optimization of Rear View Mirror Design Parameters for Blind Spots Reduction in Heavy Transport Vehicles , International Journal of Vehicle Structures & Systems, 7(4), 136-140, 2015.
- A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu , Human Reliability Analysis by Cognitive approach for unloading process in an ALDS (Auto LPG Dispensing Station) , Indian Journal of Science and Technology, vol.8, no. 26, pp. 1-11, 2015 .
- A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu , Quantification of Human error Probability by Cognitive Approach in LPG Dispenser ,International Journal of Applied Engineering Research, vol.10, no.11, pp. 27635-27650, 2015 .
- A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu , Analysis of Failure Modes in the Filling Process of LPG Storage Tanks , International Journal of Applied Engineering Research, vol.10, no.45, pp.31839-31845, 2015 .

SPORTS

- **Thyvilakathu Abin Baby, S.Pradeep Kumar, B.Ram Kumar, V.Subramanian,** III Year Mechanical Engineering Students



Winners of Table Tennis Tournament

have **won** at **Table Tennis Tournament** in Chennai Conducted by **Anna University** on 10th & 11th August, 2015.

- **Thyvilakathu Abin Baby, M.Murugesan, B.Muthu Ganesh, M.Sathish Kumar,** III year & **S.Dinesh Kumar, Rishi Kumar, S.Selva Kumar,** II year mechanical Engineering students have attended **Badminton tournament** Organized by Mepco Schelank Engineering College, Sivakasi on 13th & 14th August, 2015.
- **K.Gopinath, T.Madasamy, G.Nandha Kumar ,** III year Mechanical Engg. students have attended **Chess Competition, Anna University** Conducted by National Engineering College, Kovilpatti on 1st & 2nd Sep, 2015.
- **S.Pradeep Kumar, B.Ram Kumar, V.Subramanian, Abin Baby,** III year Mechanical Engineering Students have Participated in **Table Tennis Competition**

Conducted by VIT Vellore on 03rd & 04th Sep, 2015.

- **N.Suresh Krishnan, R.Mohan Babu, T.Marimuthu,** III Year Mechanical Engineering have participated **Zonal level Football Match** conducted by **Anna University** on 12 & 13th Sep, 2015.
- **J.Mohammed Jassim, M.R.Vishnu Sankar, J.Subburam, M.B.Vyas Narayana** are III Year Students, **R.Ajith Kumar, J.Jeya Yogeshwaran, B.Safiudeen,** II Year Mechanical Engineering Students have Participated **Zonal Level Basket Ball Competition** Conducted by National College of Engineering, Maruthakulam on 21st & 22nd Sep, 2015.
- **M.Balaganesh** of III year Mechanical Engineering Students has **won third place** in **Hammer Thorw** at **Anna University Zonal Atheletic Meet 2015-16** at Dr.Sivanthi Aditanar College of Engineering, Tiruchendur conducted by Anna University Sports Board on 29th & 31st January, 2016.
- **B.MuthuGanesh, M.Vigneshwar, N.Naga Arjun, S.Naveen** have participated in **Anna University Zonal Atheletic Meet 2015-16** at Dr.Sivanthi Aditanar College of Engineering, Tiruchendur conducted by Anna University Sports Board on 29th & 31st January, 2016.

- **R.Mohan Babu, R.Mugeshjailsingh**, are Mechanical Engineering Students actively participated in **Football tournament** Conducted by Anna University Sports Board on 04 & 05th March, 2016.

INDUSTRIAL VISIT

Each and every year Industrial visits have been planned for the mechanical engineering students for enhancing their practical knowledge.

Third year mechanical engineering students have visited Sri Shanmuga Tools & SIPCOT Industry, Hosur and BEML, Mysore Rail Wheel Factory, Bangalore on 10th & 11th August, 2015.

Industrial Visit enhances the students about different roles and importance of Mechanical Engineer.



Students in Bangalore Rail Wheel Factory

TECHYUGA 2015

Techyuga is the National Level Technical Symposium Organized by all the Five Departments of Ramco Institute of Technology on 28th & 29th Aug, 2015. In this symposium six events and one workshop were conducted by the mechanical engineering department (RIT-MechaniZo).

Faculty Co-ordinator Mr. M.Lakshmanan, AP/Mech

Student Co-ordinator Mr. R.Gokul Krishna, III Year Mechanical

<u>EVENTS/ WORK- SHOP</u>	<u>DESCRIPTION</u>	<u>FACULTY INCHARGE</u>	<u>CO-ORDINATORS</u>	<u>VOLUNTEERS</u>
ROBO GP	It is a racing Event where the remote controlled vehicles powered electrically completed with one another.	Mr. J. Jerold John Britto	D. Ganesh ram K. Venkatesh M.B.Vyas Narayana	R. Kowsiga Gopal V. Tamil Mani
MR. WELD	A technical event where participants were asked to weld different joints using arc welding equipment	Mr. G. Arockia Raja	Thyvilakathu Abin Baby S. Charles Benadict S.Peachimuthu	S.S. Vel Soma Sundhar A. Karuppasamy
BUCKET CHUTE	A designing and fabrication event where the problem was stated and solution was extracted as a bucket attached with a parachute.	Mr. S. Valai Ganesh	P. Ganga Prasad M. Sathish Kumar S. Balaji	P. Saravana Kumar S. Veera Bagu
AQUA MISSILE	A launching event where the participant launch their own water powered rockets	M. Sivagaminathan alias Balaji	K. Mahesh Kumar N. Kaliraj M. Muthu Surendar	M. Paul Raj J. Vignesh Kumar
PAPER PRESENTATION	various participants presenting papers of the desired technical topics related to mechanical engineering.	Mr. G. Vairamuthu	B. Vengalabothi S. Pradeep Kumar D. Rajasekar	V. Pandi Kumar M. Vigneshwar
SPECIAL EVENT- NITRO RC RACE	It is a racing event where the competitors from various colleges competing with their Nitro Powered RC Vehicle's	Mr. M. Ashok Kumar	Maguluri Akhil J. Mohammed Jassim	S. Raghu Balan K. T. Mohamed Mushamil
Assembly Techniques By TVS	The workshop was designed with the concept to provide basic dismantling and assembly of two wheelers.	Mr. S. Ramanathan	D. Ganapathi subramaniam S. Hari krishna	R. Dinesh Kumar M. Raj Kumar

The Official website of RIT-Techyuga 2015 was desinged by Mr. S.Vaikundam, III Year Mechanical Engineering and was maintained by III Year Mechanical Department Students. The Registration for the events and workshops for all the departments was maintained and coordinated by Mechanical Engineering Students.



Official website of the Techyuga'15 Main Page

The Official Poster of the Techyuga 2015 was conceived and designed by Mr. R.Gokul Krishna, III Year Mechanical Engineering Student. Distribution of the Coordinator by Mechanical Engineering Student.

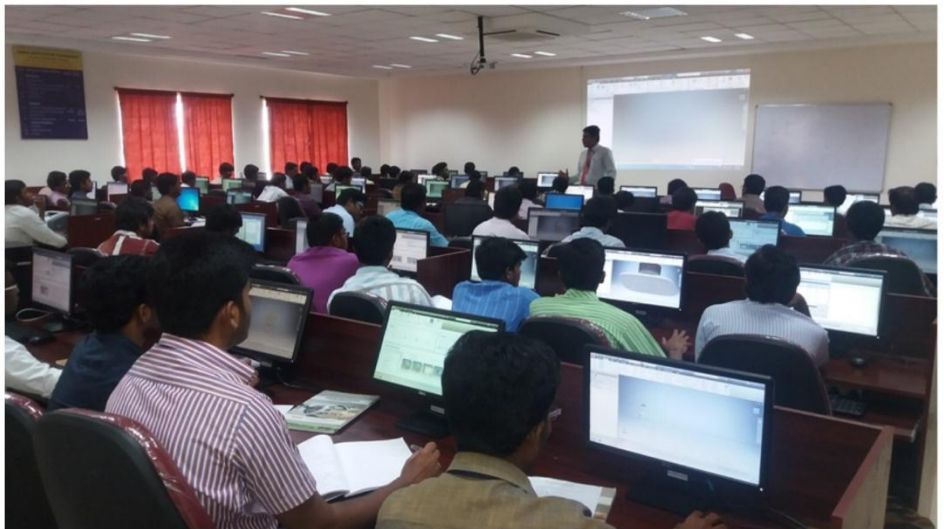


Official Poster of the Techyuga'15

VALUE ADDED COURSES

INTERNATIONAL CERTIFICATION PROGRAM - ICTACT DIGITAL PROTOTYPING USING AUTODESK PRODUCTS

One week value added course—AUTODESK INVENTOR 2015 for mechanical III year students was conducted during 28th to 5th Dec, 2015 in mechanical CAD Laboratory by Mr.J.Jerold John Britto AP/Mech and Mr. S.Valaiganesh AP/Mech conducted this program in an affected manner.



Students attending the Value added Course Autodesk Inventor 2015

One week value added course—AUTODESK AUTOCAD 2015 for mechanical II year “A” section students was conducted during 07.12.2015 to 12.12.2015 in mechanical CAD-Laboratory by



The Second year students attending Autodesk Autocad 2015

Mr. R.Gururaj AP/Mech and Mr. M.Maharajan AP/Mech conducted this program in an affected manner.

One week value added course—AUTODESK AUTOCAD 2015 for mechanical II year “B” section students was conducted during 07.12.2015 to 12.12.2015 in Operating System Laboratory by Mr. M.Lakshmanan AP/Mech and Mr. S.Valaiganesh AP/Mech conducted this program in an affected manner.

NATIONAL SCIENCE DAY PROJECT

List of Participants in the National Science Day Project,

PROJECT TITLE	STUDENTS NAME	PROJECT TITLE	STUDENTS NAME
MINI LATHE	K.Aravind Kumar P.Bala Sundar E.Praveen Raj R.Mohan Babu	UNMANNED AERIAL VEHICLE	R.Ajay Balaji M.Paulraj R.Balaji P.Aswathraja G.K.Harishkumar
FIXED GEAR BICYCLE (FIXIE)	I.Abdulla shah Abinav Kumar M.Balaganesan M.Sekar R.Paramasivam P.Ari Ramalingam	AUTOMATIC STAMPING MACHINE	M.Manicka Raj A.Karuppasamy P.Harish G.Gokul Prasad
REMOTE CONTROLLED (RC) PLANE	R. Gokul krishna R. Cibi Raj B. Muthu Ganesh P. Ganga Prasad B. Ramkumar	MILLING ATTACHMENT IN LATHE	G.Karthikeyan K.Janarthanan S.Bhavishkumar M.Deivanayagam M.Ameer sultan
TWO STAGE TRIPLE BOOSTER POWERED ROCKET WITH AXIAL PARACHUTE DEPLOYMENT	S.Peachimuthu V.Subramanian G.Radhakrishnan D.Rajasekar	FOUR WHEEL STEERING MECHANISM	K. Arun Kumar M.P. Arunkumar Balaji P. Ari Vishnu A. Boopathi Raja M. Praveen Kumar
WEIGHING MACHINE USING PASCAL'S LAW	S.Arumugarajan G.Balamurugan T.Marimuthu A.Siva ananth pandiyam J.Subburam	SOLAR COOKER	R.Ajithkumar M.MuthuSaravanan S.Binusam S.Lakshmanan B.Kishore Kumar
ALL DIRECTION STEERING MECHANISM	M.B.Vyas Narayana D.Ganeshram M.Muthu Surendar	PENDULUM PUMP	S.Manojkumar P.Mariswaran R.Kanagaraj P.Mohanraj N.V.Lakshmi Narayanan

NATIONAL SCIENCE DAY PROJECT

PROJECT TITLE	STUDENTS NAME	PROJECT TITLE	STUDENTS NAME
SMART CAR WITH 360 DEGREE ROTATION	M.Karthick R.Kowsiga Gopal K.Manikandan R.Aravind M.Ashok Kumar	VIBRATION PROPULSOR	VV. ParthaSarathi N. Ramakrishnan M. Sathish Kumar P.S. VenkatRamana K.Vishnu Shankar
THERMOELECTRIC REFRIGERATOR	IS.Sankar S.Raghu Balan S.Manikandan B. Sibish Raghul	SPROCKET SIDE-STAND RETRIEVE SYSTEM	M.Subash P.G.Suresh Kumar M.VijaySakthi R.SujithBalaji M.Raj Kumar K.G.Subba Raja
SALT WATER CAR	K. Rajahdharma lingam B. Raghuram D. Sivaganesh I. Rishi Kumar A. Surya R. Surya	PERPETUAL MOTION MACHINE	A.Shanmuga Raja R.Sriram Mohan G.Selva Raj R.Sriabiram V.Tamil Mani D.Vignesh
WORK PIECE SORTING SYSTEM IN MANUFACTURING INDUSTRY	K. Muthu Selvam M. Praveen Kumar M. Petchimuthu Rajan, K. Raj G. Vivek Kannan E.Udhayakumar	GENEVA MECHANISM FOR MATERIAL MEASURING DEVICE BASED ON CONVEYER BELT	M.Sathish Kumar M.Vignesh K.Veeraragavan M.Venkatesh K.Veil Kumar M.Suresh Kumar
GSM BASED LPG GAS LEAKAGE DETECTOR	R.Sankar Ram G.V.Ram Shankar S.Selva Kumar I.Sivabaskarapandiyan	CRAB MOVEMENT USING KINEMATIC LINKS	D.SathishKumar M.Thavaguru M.Mohammed Faizal, K.Mari Kannan P.Saravana Kumar M.Vairamuthu
GRAVITY LIGHT	Subramaniam Dinesh Kumar, B.Safiudeen S.Sanju J.Sriram S.R.Siva Sankari M.Vigneshwar	GYROSCOPIC EFFECT ON FAN	G. Rampranav S.A. Ramsundar M. SudalaimaniL L.Siva Rama Krishnan P.Selvam

NATIONAL SCIENCE DAY PROJECT

PROJECT TITLE	STUDENTS NAME	PROJECT TITLE	STUDENTS NAME
REMOTE CONTROL CAR	K. Ajeeth Kumar J. Arul Raj M. Gowri Sankar K. MuniyaRaj	PLASMA CUTTER	R. Giridharan R. Bharath Kumar V. S. Karthikeyan P. ChandraMohan
CARBONIC ACID IN LEAD BATTERY	S. Anandharaj J. Dharmaraj N. Karthikeyan M. Karthik	ROAD SAFETY LIFE SAVING MECHANISM	M. D. Janani Sudha P. Keerthana
AUTOMATIC RAILWAY GATE CONTROLLING AND SIGNALLING SYSTEM	V. K. ArunKumar M. Manikandan M. Praveen Kumar S. RamaGopal	AUTOMATIC ATTENDANCE COUNTER USING IR SENSOR	I. Ilancheran M. Dakshina Murthy R. Gunasekaramani M. Gobinath
LEIDENFROST EFFECT	G. Dhalapathi P. S. Al Ameen S. Deiva Prakash R. Mukesh Jail Singh	AUTOMATIC PET FEEDER USING AR-DUINO	J. Jaichith V. Mathusudan A. Manoj K. Hariprasath
LEMON BATTERY	R. Dhanusaram S. Kalaisriram K. Karthik C. Jeeva Ganesh P. R. Harishkumar	AIR COOLER FAN	M. Kathiresan B. Ashok Babu V. Gowtham Chakravarthi S. Harishkumar
KINEMATIC MOVING ROBOT	G. Kalyana Sundaram B. Karel Marx Muthiah S. Babu Ganesh Ram P. Karpagarajan	WIND MULTI GENERATOR	S. Balakumeresan R. Kesavan R. Mukesh Aswin R. Karthick Raj
SQUARE HOLE DRILLING	N.Senthilkumar J.Veeraiah S.Ramesh, M.S.Vasanth	SHELL AND TUBE HEAT EXCHANGER FOR COOL DRINKING WATER	P. Senthil Kumar M. Suresh Moorthy E. Selva Kumar M. Sathish Kumar

NATIONAL SCIENCE DAY PROJECT

PROJECT TITLE	STUDENTS NAME	PROJECT TITLE	STUDENTS NAME
WATER RACKET	M. Manoj Kumar S. H. Mohammed Yusuff M. Kumaran Devan B. R. Harsath Samuel	MAGNETIC LEVITATION	S. Shanmugham P. Pandia Raj M. Vasanth S. Srinivasan
AUTOMATIC STREET LIGHT CONTROL SYSTEM	M. Mohan Raj S. ManiVignesh M. Gowtham M. Nilavarasu	MINI WIND TURBINE FOR GENERATING ELECTRICITY	N. Pathmapriyan P. Sabeel Ahamed M. Sadiq Abdul S Sam Rooswelt
INTELLIGENT STREET LIGHTS TIMER CONTROLLER FOR POWER SAVE	T. Mukeshkumar S. Diwan Ahmmed Sha S. Mohammed Meeran M. Natarajan	WATER ROCKET	S. Saravana Kumar P. Suresh Kumar R. Sharin Raja R.S. Sri Vignesh
WATER LEVEL INDICATOR	G.S. Ajaykirubahar S. Ajay Rajappan S. Gopal Raj G. Narayanamoorthy	FABRICATION OF PELTON WHEEL TURBINE	M. Padmanapan M. Prasanna Rajan M. Vigneshwaran R. Pranav Ram
EXPLOSIVE HYDROGEN GAS	GENERATION OF ELECTRICITY WITH THE SPEED BREAKERS	PORTABLE GENERATOR	J. Venkatesh N. Venkadeshwaran G.R. Venkatraman G. Ponneelan
HIGH VOLTAGE AND LOW VOLTAGE CUTOFF WITH DELAY AND ALARM	N. Thetchina Moorthy A. Rajesh S. Yogesh Kumar	REVERSING LIQUID	P. Sureshkumar S. Saravana Kumar R. Sharin Raja R. N. Srivignesh
INDUCTION OF EDDY CURRENT	S. Vengadesan R. Ramprakash J. saravanakumar T. Sushanth	THERMAL POWER PLANT	P. Sankar bharathi M. Yogeswaran B. Nirmal raj R. Veerasakthivel
INTERESTING PROPERTIES OF LIGHT	N. Thetchina Moorthy, A. Rajesh S. Yogesh Kumar	GAS LEAKAGE SENSOR	R. Rakesh K.S. Shyam M. Viswanath V.K. Vikram

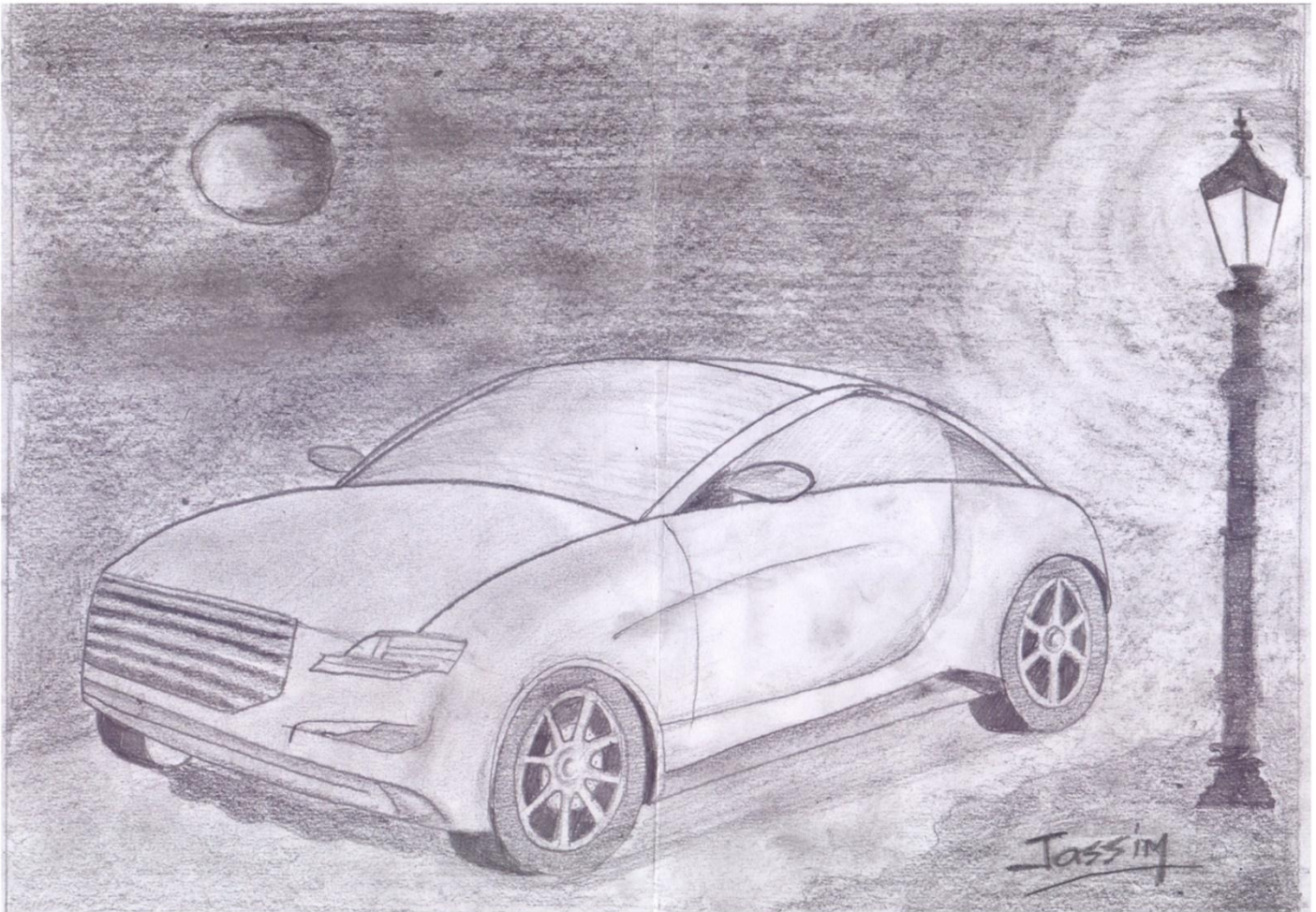
These are the few of the moments captured during NATIONAL SCIENCE DAY, In which the first and Second place was bagged by Students of mechanical engineering **Balaji and group won first place & CibiRaj and group Secured Second place for the project Remote Controlled Plane.**



MECHANICAL DEPARTMENT BLOOD DONORS FOR THE **ACADEMIC YEAR 2015-16**

G.S.Guruvayurappan	K.Marimuthu
G.Selva Raj	K.Manikandan
M.Sathish kumar	M.B.Vyas Narayana
R.Ajay Balaji	M.Kalimuthu
M.Karthick	P.Selvam
M.Thavaguru	B.Nandha Kumar
M.Manicka Raj	M.Vigneshwaran
G.Gokul Prajath	M.Ashok Kumar
M.P.Arun kumar balaji	M.Subhash
K.Balaji	B.sibish ragul
M.Praveen Kumar	S.Sujith Balaji
R.Aravindh	G.Vivek Kannan
M.Nijanthan	G.V.Ram Shankar
B.Dinesh Kumar	A.Siva Ananth Pandian
P.Mohan raj	V.Suramanian
P.Harish	B.Ram Kumar
A.Shanmuga Raja	D.Ganapathi Subramanian
M.Paul raj	Harish
R.Dinesh kumar	M.Balaganesan
K.Raj	M.Saravanakumar
M.Karthick	K.Mahesh Kumar
R.Kowsiga Gopal	M.Muthu Surendar
M.Muthu Kumar	K.Rajah Dharmalingam
R.Shankar Ram	S.Manikandan
I.Rishi Kumar	B.Raghu Ram
S.Raghu Balan	S.Selva kumar
Palani Barathi	R.Prem Kumar
R.Raghul Raja	A.Surya

STUDENT'S ARTICLES



Success yield confidence

But failure defines the path to success

Success enrolls the name in the honour board

But failure gives the efforts to be in the honour board

Success lays the platform for fame

But failure provides new platform for greater success

So, be a part of the competition to handle failure and emerge successful

BY

Thyvilakathu Abin Baby

Faculties Actively Participated in Workshops/ Conference/ Education Programme etc...

- **Mr.J.Jerold john Britto, AP/Mech** has attended Short Term Training Program on “Fundamentals and Applications of FEA & CFD in Engineering” organized by Mepco Schlenk Engineering College, Sivakasi on 01st to 03rd June, 2015.
- **All Faculty Members in Department of Mechanical Engineering** have attended Five day Faculty Training Programme on “NI- Labview Software and Hardware” Mrs.C.B.Moganavalli, Sr. Application Engineer, National Instruments organized by Organised by EEE Department, RIT on 15th to 19th June, 2015.
- **All Faculty Members** have attended Essentials of Teaching- Learning Process organized by Dr.R.V.Mahendra Gowda, Principal, RIT.
- **All Faculty Members** have attended Faculty Development Programme on “Training the Trainers” organized by Dr.R.V.Mahendra Gowda, Principal, RIT.
- **Mr.J.Jerold john Britto, AP/Mech** attended Two day workshop titled “Introduction to Robotics” conducted by the e- Yantra team of IIT Bombay organized by Mepco Schlenk Engineering College, Sivakasi on 29th to 30th June, 2015.
- **Mr.J.Jerold John Britto, AP/Mech , Mr.S.Valai Ganesh, AP/Mech** and II Year Mechanical Engineering Students have participated Workshop on ABAQUS FEA Software organized by Mepco Schlenk Engineering College, Sivakasi on 19th September, 2015.
- **Mr.J.Jerold John Britto, AP/Mech , Mr.S.Valai Ganesh, AP/Mech** are participated ICTACT - FDP on Digital Prototyping using Autodesk Inventor 2015 organized by St. Xavier’s Catholic College of Engineering, Chunkankadai, on 23rd-27th November, 2015.
- **Mr. G.ArockiyaRaj, AP/Mech** has attended Short Term Training Programme on “Hands on Training in Computer Aided Manufacturing (HoT CAM-15)” organized by Mepco Schlenk Engineering College, Sivakasi on 02nd to 04^{td} December, 2015.
- **Mr. M.Ashok Kumar, AP/Mech** has attended AU approved FDTP on Thermal Engineering organized by Kamaraj College of Engineering &

Technology, Virudhunagar on 01st to 08th December, 2015.

- **Prof.S.Rajakarunakaran, Mr.P.Sureshkumar, Mr.M.Lakshmanan and Mr. C.Gururaj** have attended Awareness and Internal Audit Training Program, Mr.V.Viswanathan, Manager, TUV organized by Ramco Institute of Technology on 18th to 19th December, 2015.
- **Mr.S.Valai Ganesh, AP/Mech and Mr.M Sivagaminathan @ Balaji AP/Mech** have participated Two Days –on Training Programme on “LATEX – A Document Markup Language” organized by Kalasalingam University on 07th-08th January, 2016.
- **Mr.J.Jerold John Britto, AP/Mech** attended International Conference on “Productivity, Efficiency and Competitiveness in Design and Manufacturing” organized by PSG College of Technology, Coimbatore on 07th to 09th Jan, 2016.
- **Mr.J.Jerold John Britto, AP/Mech , Mr.S.Valai Ganesh, AP/Mech** and II Year Mechanical Engineering Students have participated Workshop on Workshop “Digital Prototyping using Autodesk Inventor

2015” organized by ICTACT on 23rd Jan, 2016.



Faculty attended the program

- **Mr.S.Valai Ganesh AP/Mech**, has attended one day seminar on Engineering Education & Research at Kanyakumari in association with National Instruments & ICTACT on 29.03.2016
- **Mr.C.Gururaj AP/Mech**, attended Five days FDP on AU-NASSCOM Foundation Skills on Integrated Product Development (FSIPD) Course at Alagappa Chettiar College of Engineering & Technology, Karaikudi on 26.03.2016 to 30.03.2016.



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