



PMC TECH

Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING



(Accredited by NAAC with 'B++' Grade)

(AN ISO 9001 - 2015 CERTIFIED INSTITUTION)

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Website: www.pmctech.org

PMC - MECHATRONICS

ANNUAL NEWS LETTER

Volume - 1

Issue - 1

March - 2020



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CHAIRMAN'S MESSAGE



“Make of us the hero warriors we inspire to become. May we fight successfully the great battle of the future that has to be won against the past that seeks to endure, so that the new things may manifest and we are ready to receive them”

Welcome to PMC TECH, where academics and activities never end and the students are molded as future technocrats and business leaders. The Institute works on the vision to become one of the leading centers of teaching, research and extensions in the field of Engineering and Technology through total commitment towards quality education and training. We instill our students with the strength of character, self-confidence technical competence and leadership in management.

We propagate knowledge to the students with the help of dedicated faculty, state-of-the-art library and well-equipped labs along with audio-visual theatre. The institute has an enviable track record of academic excellence, which is coupled with hands-on industrial training, and innumerable industry-institute interaction, which makes each PMC TECH student ready to be absorbed in the company.

Er. P. Perumal,
Chairman,
PMC TECH - Group of Institutions

SECRETARY'S MESSAGE



“The Institute not only extends good campus and state of the art computing facilities to the Students but also aims at giving those competencies that will make them leaders and trendsetters in their respective field, in this age of competition”

PMC TECH is committed to develop young minds for creative leadership in business and a proactive and useful role in social transformation. Today the need for being proactive and constructive is more acute than ever before due to the sweeping change influencing every aspect of our life. Therefore, there is need for action based on holistic training of youth to take on varied challenges of life.

An opportunity to study at PMC TECH empowers a student to acquire knowledge and develop skills that will enable him to lead a highly productive, rewarding and holistic life. As a part of PMC TECH's commitment towards quality technical education and excellence, we embarked on promoting Faculty Development Program, Seminars, Workshops and Conferences, which will keep the faculty and students abreast of their field.

Shri. P. Kumar,
Secretary & Correspondent

TRUSTEE'S MESSAGE



“The goal of education is the advancement of knowledge and the dissemination of truth”

The rapid rate of technological advancement and the information revolution have opened new series of challenges as well as opportunities. We aim to prepare the students to be successful in their workplace. It aims to prepare the students with technical knowledge and capabilities, flexibility and an understanding of the societal context of corporate world.

We give the students support and encouragement they need to reach their full potential. We strive to give professional education a new perspective and achieve perfection in all spheres. We provide a pleasant & intellectually stimulating environment. The main reason for our tremendous performance is the faculty, which makes PMC TECH stand out from the rest of engineering colleges and Institutes. I wish to assure all concerned that no efforts will be spared to bring PMC TECH as one of the top Technical education Institutions.

Smt. P. Mallar,
Trustee



“Education is the ability to listen to almost anything without losing your temper or self-confidence”

PMC TECH is committed to creating an ambience for nurturing innovation, creativity and excellence in our students. We aim to prepare the young engineers and managers to confidently and competently face the challenges of intensifying competition by imparting high quality technical and managerial education coupled with appropriate training and wide exposure to the state-of-art practices. Our educational programmes lay emphasis on all round personality development and also in inculcating human values and professional ethics which help our students become more humane and socially alive to lead a meaningful life.

This newsletter will help the students and faculty members to make them aware of different activities of their department as well as the other departments and will develop a better culture and academic environment. Further this will boost the morale of students and faculty to participate in future activities.

Smt. S. Sasirekha,
Trustee

PRINCIPAL MESSAGE



“I believe that education is not just about teaching curriculum, it is also about the development of human intellect, capability to think independently and speak articulately. Through numerous student activities the college imparts all these life skills in students. Education in PMC TECH also emphasizes on development of personality, interpersonal skills and instilling the right values”

With a devoted and highly qualified set of faculty members, well provided infrastructure and efficient administrative staff, we always impart best education by giving in depth knowledge in the subject. We know that mere education does not make you a complete man / woman.. With our rich library, we want you to develop reading habits. We always endeavor that when student go out. They should be recognized as highly knowledgeable, amiable, active and greatly trust worthy individual.

Thanks to the educationally committed management, we have the reputation that we provide all the facilities and amenities. May be because of all these,. I am thankful to all my colleagues who are striving hard to establish PMC TECH as one of the leading Engineering Institutions.

Dr. S. Chitra,
Principal

HOD MESSAGE



“Our nuclear scientists and engineers have done a splendid job, and naturally, the entire nation has risen to salute their professional excellence, discipline, and patriotism. They have had the benefit of having been led in the past by great men like Homi Bhabha and Vikram Sarabhai.”

I feel ecstatic to introduce you to Department of Mechatronics Engineering, which is the foundation of engineers and Department of Mechatronics Engineering combines Mechanical Engineering and Electronics Engineering and strives for increasing the knowledge, enhancing the critical thinking, ability to change information into knowledge and power of analyzing the things technically of each and every individual of ever changing society through students. We always intend to impart knowledge through a closed knit family of highly competent faculty. Our Laboratories have been very well established not only to cover complete syllabus but to motivate students to learn beyond the syllabus which definitely develops complete knowledge of the subject (both the practical and theoretical depth of knowledge) and develop skill sets of students to become promising engineers in future. I would like to conclude with the words of Thomas Friedman who has rightly opined "World is flat opportunities are immense. It's just a question of identifying opportunities and making the best of them". I wish a very best of luck to the students.

Prof. M. Sahithullah,
HOD - MCO

PMC TECH-AN OVERVIEW

PMC TECH group of Institutions consisting of Engineering College, polytechnic and ITI were established in the year 1996 by Er.Perumal B.E, M.I.E, FIV, Our founder and Chairman and sponsored by **Er.Perumal Manimekalai Telugu Minority Educational and Charitable Trust**. It is situated closer to the Industrial Hub, Hosur, Tamilnadu.

Er.Perumal Manimekalai College of Engineering, established in the Academic year 2002-03 is approved by All India Council for Technical Education (AICTE) and affiliated Anna University.

PMC TECH creates unique opportunities, provides individualized educational challenges, promotes high order thinking skills and maintains a strong tradition of academic excellence for students. The college is equipped with world class infrastructure and highly qualified, experienced faculty members. An active Placement Training and Welfare Cell is functioning with full enthusiasm with the aim of placing the students in top-notch companies. PMC TECH, a premier institution for higher education seeks to impart value added technical education and always aiming at excellence along with inculcation of ethical, moral, & professional values, with national welfare in heart.

ABOUT THE DEPARTMENT

Department of Mechatronics Engineering is a professional discipline that combines Electrical and Mechanical Engineering with Computer Technology and Control Engineering. Being a part of the PMC TECH family from the year 2013, it uses and provides new technologies in automation and robotics. The Department has highly qualified and experienced faculty members to strengthen and fulfill the needs of the students from rural community. It has highly equipped with modernized laboratories for the benefit and betterment of the students society in the field of Mechatronics Engineering. Tasks in hazardous environments or precise positioning to be accomplished suitably for the benefits of health, safety, society and economy.

Vision

- To create a centre of excellence by imparting relevant technical knowledge and wisdom to the students' through innovative teaching and extensive practical exposure in the field of mechatronics coupled with relentless rendezvous in research to excel in their chosen career.

Mission

- To ensure unique and effective, teaching-learning process through imparting in depth knowledge of the concepts, principles, and its applications.
- To enrich the students with extensive industry oriented practical knowledge through state of art laboratories meeting the needs of industry and society
- To provide distinctive opportunities for finding innovative solutions to the complex problems for the growth and development in industry and society.

TECHKATHON-2K19



Final year MCO students won the first place in the Tachkathon-2K19



Department Faculties with Students taken Group photo with Principal



Group Photo session in Techkathon-2019

Mr. R.Vijay, S.Lakshmikanth & V.Naveenkumar of final year Mechatronics Engineering students participated and submitted the project in the event of "TECHKATHON-2K19" organized by the Er.Perumal Manimekalai College of Engineering, Hosur on 07.09.2019. They were won the First Place and got the direct placement from Foxconn Technology Group, Chennai.

WORKSHOP

S.No	Title of event	Date	Chief Guest /Speaker	No of Participants	YEAR/ SEM
1	PCB Design & Fabrication	27/06/2019-28/06/2019	Mr.R.Pandian, Managing Director, Alpha Beta solutions, Madurai	20	II/III
2	IOT & its Applications	15/07/2019-16/07/2019	Mr.G.Jaisarathy, Trainer , One Yes Tech, Chennai	27	III/V
3	Robotics	17/07/2019-18/07/2019	Mr.R.Balaji, Trainer One Yes Tech, Chennai	26	IV/VII
4	Arduino & its Application	10/02/2020-11/02/2020	Mr.R.Balaji, Trainer One Yes Tech, Chennai	20	II/III
5	Industrial Automation using PLC & SCADA	10/02/2020-11/02/2020	Mr.Jayakumar P,Iologic Automation, Chennai	27	III/V

PCB Design & Fabrication



Workshop on PCB Design and Fabrication

The Department of Mechatronics Engineering organized a one day National Level Technical Symposium on "ROBOTECH-2K19" on 21-09-2019. Er.P.Perumal, presided over the function. Shri. P. Kumar, Secretary & Correspondent delivered the Felicitation Address. Smt.P.Mallar, Trustee delivered the Special Address. Prof.M.Sahithullah, Head of the Department delivered the Welcome Address. Dr.I.Rahmathulla, Professor /Mech, GCE,

Srirangam was Chief Guest and delivered the Keynote Address. In this Symposium about 110 participants were participated and presented their papers. Finally Mr.N.Selvakumar, ASP of Mechatronics Engineering proposed the Vote of Thanks.

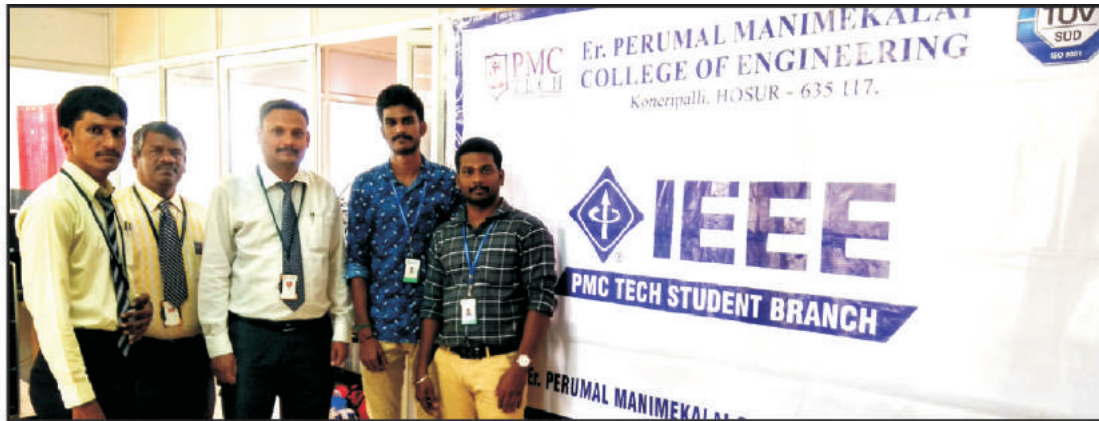
IOT & ITS Applications



Two days Workshop on IOT and its Applications

The Department of Mechatronics Engineering organized a two days Workshop on "IOT and its Applications" during 27-06-2019 & 28-06-2019 for the benefit of Third year students. Mr.G.Jaisarathy, Trainer, One Yes Technology, Chennai was the Chief Guest and given the Lecture with hands on Training.

ROBOTICS



Two days Workshop on Robotics

The Department of Mechatronics Engineering organized a two days Workshop on “Robotics” during 17-07-2019 & 18-07-2019 for the benefit of Third year students. Mr.R.Balaji, Trainer, One Yes Technology, Chennai was the Chief Guest and given the Lecture with hands on Training.

Industrial Automation using PLC & SCADA



Dr.M.Sahithullah, HOD gave the Welcome the gathering and introduced the Chief Guest

The Department of Mechatronics Engineering organized a two days Workshop on “IOT and its Applications” during 10-02-2209 & 11-02-2020 for the benefit of Second and Third year students. Mr.G.Jayakumar, Trainer, IO Logic Automation, Chennai was the Chief Guest and given the Lecture with hands on Training.

ARDUINO & ITS APPLICATION



The Department of Mechatronics Engineering organized a two days Workshop on “Arduino and its Applications” during 10-02-2209 & 11-02-2020 for the benefit of Second year students. Mr.G.Jayakumar, Trainer, One Yes Technology, Chennai was the Chief Guest and given the Lecture with hands on Training.

Two days Workshop on Arduino and its Applications

INDUSTRIAL VISIT

S.NO	DEPARTMENT & YEAR	ORGANISATION VISITED WITH ADDRESS	DATE	NO.OF STUDENTS
1	MCO-II & IV	AGIIT, Bangalore	16/07/2019	46
2	MCO-III & IV	ELASIA -2K19, Bangalore	24/06/2019	53
3	MCO-IV	Fanuc India Pvt.Ltd, Bangalore	05/08/2019	26
4	MCO-II & III	Innoforge Pvt.Ltd, Hosur	20/07/2019	47
5	MCO-III	TVS Automobile Solution Pvt. Ltd, Salem	19/08/2019	27
6	MCO-IV	Kudankulam Nuclear Power Plant, Kanyakumari	20/12/2019 - 21/12/2019	26
7	MCO-III	Shardlow India Ltd, Hosur	19/12/2019	27
8	MCO-II	Shardlow India Ltd, Hosur	20/12/2019	20
9	MCO-III	TVS Motor Company, Hosur	21/01/2020	27
10	MCO-II & III	IMTMA – 2K20 (BIEC), Bangalore	25/01/2020	47

AXIS GLOBAL INSTITUTE OF INDUSTRIAL TRAINING



One day Industrial Visit at Axis Global Institute of Industrial Training, Bangalore

The department Mechatronics Engineering has been arranged a one day Industrial Visit at “Axis Global Institute of Industrial Training”, Bangalore to the final year Mechatronics Engineering students on 16.07.2019. Mr.K.Sureshkumar, AP and Mr.C.Khader, AP/Mechatronics Engineering are the student coordinators.

ELASIA -2K19



One day Industrial Visit at Axis Global Institute of Industrial Training, Bangalore

The department Mechatronics Engineering has been arranged a one day Industrial Visit and Exhibition at “ELASIA-2K19”, Bangalore to the third year Mechatronics Engineering students on 24.06.2019. Mr.K.Sureshkumar, AP and Mr.N.Manivel, AP/Mechatronics Engineering are the student coordinators.

INNOFORGE



One day Industrial Visit at INNOFORGE, Hosur

The department Mechatronics Engineering has been arranged a one day Industrial Visit at "INNOFORGE", Hosur to the third year Mechatronics Engineering students on 20.07.2019. Mr.N.Manivel, AP/Mechatronics Engineering was the student coordinator.

FANUC



One day Industrial Visit at FANUC India Pvt.Ltd, Bangalore

The department Mechatronics Engineering has been arranged a one day Industrial Visit at "FANUC India Pvt Ltd", Bangalore to the final year Mechatronics Engineering students on 05.08.2019. Mr.K.Sureshkumar, AP and Mr.N.Manivel, AP/Mechatronics Engineering are the student coordinators.

TVS AUTOMOBILE SOLUTION



One day Industrial Visit at TVS Automobile Solution, Hosur

The department Mechatronics Engineering has been arranged a one day Industrial Visit at "TVS Automobiles India Pvt. Ltd.," Hosur to the third year Mechatronics Engineering students on 19.08.2019. Mr.C.Khader, AP and Mr.N.Manivel, AP/Mechatronics Engineering are the student coordinators.

KUDANKULAM NUCLEAR POWER PLANT



Two days Industrial Visit at Kudankulam Nuclear Power Plant

The department Mechatronics Engineering has been arranged a two days Industrial Visit at “Kudankulam Nuclear Power Plant, Kudankulam”, to the final year Mechatronics Engineering students during 20.12.2019 & 21.12.2019. Mr.N.Selvakumar, ASP/Mechatronics Engineering was the student coordinator.

SHARDLOW



One day Industrial Visit at SHARDLOW, Hosur

The department Mechatronics Engineering has been arranged a one day Industrial Visit at “SHARDLOW”, Hosur to the second year Mechatronics Engineering students on 20.12.2019. Mr.N.Manivel, AP/Mechatronics Engineering was the student coordinator.

SHARDLOW



One day Industrial Visit at SHARDLOW, Hosur

The department Mechatronics Engineering has been arranged a one day Industrial Visit at “SHARDLOW”, Hosur to the third year Mechatronics Engineering students on 19.12.2019. Mr.N.Manivel, AP/Mechatronics Engineering was the student coordinator.

TVS MOTOR COMPANY



**One day Industrial Visit at TVS Motor Company,
Hosur**

The department Mechatronics Engineering has been arranged a one day Industrial Visit at "TVS Motor Company", Hosur to the third year Mechatronics Engineering students on 21.01.2020. Mr.N.Manivel, AP/Mechatronics Engineering was the student coordinator.

INDIAN MACHINE TOOL MANUFACTURER ASSOCIATION – 2K20 (BIEC)



**One day Industrial Visit at Indian Machine Tool
Manufacturer Association, Bangalore**

The department Mechatronics Engineering has been arranged a one day Industrial Visit AND Exhibition at "INDIAN MACHINE TOOL MANUFACTURER ASSOCIATION – 2K20 (BIEC)", at Bangalore International Exhibition Centre, Bangalore to the second and third year Mechatronics Engineering students on 25.01.2020. Mr.N.Manivel, AP and Mr.K.Surehkumar AP/Mechatronics Engineering are the student coordinator.

GUEST LECTURE

CONTROL SYSTEM ENGINEERING



Guest Lecture on Control System Engineering

A Guest Lecture on "Control System Engineering" was conducted by Department of Mechatronics Engineering on 03-08-2019 to the third year students. Mr.S.Devaraj, AP/EEE of our institution was delivered the lecture.

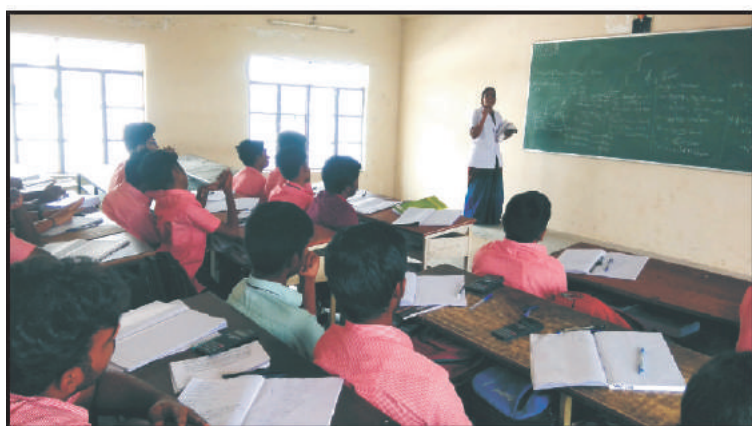
DIGITAL ELECTRONICS



Guest Lecture on Digital Electronics

A Guest Lecture on “Digital Electronics” was conducted by Department of Mechatronics Engineering on 18-07-2019 to the Second year students. Mr.S.Prasanna Venkatesh, AP/ECE of our institution was delivered the lecture.

STRENGTH OF MATERIALS FOR MECHANICAL ENGINEERS



Guest Lecture on Strength of Materials for Mechanical Engineers

A Guest Lecture on “Strength of Materials for Mechanical Engineers” was conducted by Department of Mechatronics Engineering on 17-07-2019 to the Third year students. Mrs.B.Sowmiya, AP/Civil Engineering of our institution was delivered the lecture.

TECHNICAL SEMINAR

S.NO	TITLE OF EVENT	CHIEF GUEST/SPEAKER	DATE	NO OF STUDENTS PARTICIPATED	YEAR/SEM
1	Robotics & Automations	Mr.S.Parsuraman, AGIIT, Bangaloure	15/07/2019	26	IV/VII
2	Industrial Automation	Mr.M.Maheshwaran, Senior Executive officer IMTA Tech Centre, Bangalore	19/02/2020	53	III/V
3	IOT Based Recent Tech in Smart Grid & Cyber Security	Mr.Dhanaselvan Thangavel, CEO Founder, Cps Gateway Tech, Bangalore.	1/08/2019	27	III/VI

ROBOTICS & AUTOMATIONS



Technical Seminar on Robotics & Automations

A Technical Seminar on “Robotics and Automation” was conducted by Department of Mechatronics Engineering on 15-07-2019 to the final students. Mr.S.Parasuram, AGIIT, Bangalore wa the Chief Guest and gave the lecture in the Seminar.

IOT BASED RECENT TECH IN SMART GRID & CYBER SECURITY



Technical Seminar on IOT Based Recent Tech in Smart Grid & Cyber Security

A Technical Seminar on “IOT Based Recent Tech in Smart Grid & Cyber Security” was conducted by Department of Mechatronics Engineering on 15-07-2019 to the final students. Mr.Dhanaselvan Thangavel, CEO Founder, CPS Gateway Tech, Bangalore was the Chief Guest and gave the lecture in the Seminar.

INDUSTRIAL AUTOMATION



Technical Seminar on Industrial Automation

A Technical Seminar on “Industrial Automation” was conducted by Department of Mechatronics Engineering on 15-07-2019 to the final students. Mr.M.Maheshwaran, Senior Executive officer IMTA Tech Centre, Bangalore, was the Chief Guest and gave the lecture in the Seminar.

PLACEMENT

2020 Current student Placed in **FOXCONN**



R.VIJAY



S. LAKSHMIKANTH



V. NAVEEN KUMAR

WONJIN AUTOPARTS



M. ARUN KUMAR



R. JAYPRAKASH

WOOSU AUTOMOTIVE



A. BABURAJ



R. GOKULNATH

WONJIN AUTOPARTS



V. MANICKAM



P. NANDHA KUMAR



V. NAVEEN KUMAR



V. PRAKASH



RAJENDRAN. M



R. SAM WESLEY



N. VEERABHADRAN



R. VIJAY



V. NAVEENKUMAR



V. ARJUN KUMAR

EUREKA FORBES



T. YALANSRI



G. HEMANTHKUMAR



T. SREENIVASAN

LAB FACILITIES

- Strength of material and Fluid mechanics and Machinery Laboratory.
- Electrical Machines and Drive Laboratory.
- Microprocessor and Microcontroller Laboratory.
- Computer aided machine drawing
- Power Electronics Laboratory.
- Sensor and Instrumentation Laboratory.
- Dynamics Laboratory.
- Applied Hydraulics and Pneumatics Laboratory.
- Industrial Automation Laboratory
- Manufacturing Technology Laboratory.



Dynamics Laboratory



Manufacturing Technology Laboratory



Applied Hydraulics and Pneumatics Lab



CAD Laboratory



Electrical Machines and Drive Laboratory



Strength of Materials and Fluid Mechanics & Machinery Laboratory



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INDUSTRIAL TRAINING INSTITUTE

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