



Annual Report 2019-2020



MAHATMA EDUCATION SOCIETY'S
PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY
PILLAI HOCL EDUCATIONAL CAMPUS RASAYANI

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1 Message from the Principal

Today the trends in the changing scenario of engineering education demands that we rethink on how to educate engineers for the future. While engineering education must produce technically excellent and innovative graduates, it is equally important that moral values need to be imbibed in the future engineers to make them better citizens. Engineers of tomorrow should be well equipped to work in a constantly changing global economy.

PHCET - offers a range of programs to choose from in Engineering and Technology streams all the way from undergraduate level to doctoral level. We promote multi-faceted development of the students. They are imbibed with the skills of project based learning, a practical learning process which helps the students to develop effective problem solving skills, self-directed learning, effective collaboration skills and intrinsic motivation. While pursuing academic excellence, we also take care of all-around personality development leading towards an excellent career by paying personal attention to every individual student. Various student-centric methods are adopted to enhance the learning experience.

PHCET has a blend of young enthusiastic motivated faculty as well as highly qualified experienced faculty who play a vital role in the overall development of the students of the institute. We have a pleasant, picturesque environment, state of the art laboratories and infrastructure. Research activities for students and faculty, as well as Interdisciplinary projects are encouraged.

We look forward to welcoming aspiring engineers to our Institute, so that we can shape their future and make them better citizens of the country.

2 Introduction

2.1 Vision and Mission

Vision

Pillai HOC College of Engineering and Technology will admit, educate and train for engineering graduation a diverse population of students who are academically prepared to benefit from the Institute's infrastructure and experience to become responsible professionals in a technical arena. It will further attract, develop and retain, dedicated, excellent teachers, scholars and professionals from diverse backgrounds whose work gives them visibility beyond the classroom and who are committed to making a significant difference in the lives of their students and the community.

Mission

To develop professional engineers with respect for the environment and make them responsible citizens in technical development both from an Indian and global perspective. This objective is fulfilled through quality education, practical training and interaction with industries and social organizations.

2.2 Institute structure

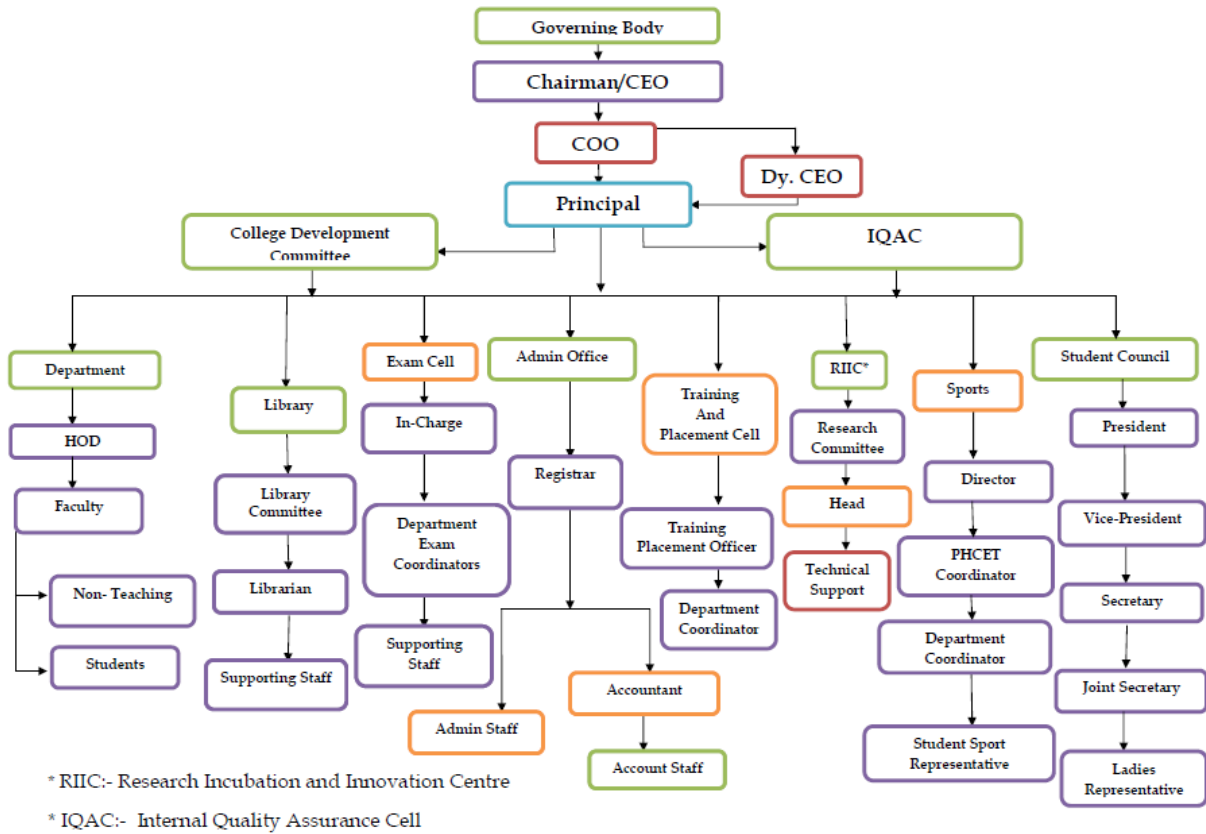


Figure 1: Institute Organogram

2.3 Board of Governance

| Name of the Member | Status of Committee Member |
|-----------------------------|----------------------------|
| Dr K.M. Vasudevan Pillai | Chairman & CEO, MES |
| Dr (Mrs) Daphne Pillai | Secretary, MES |
| Mrs. Geeta Menon | Treasurer |
| Mr. Franav Pillai | Member |
| Mr. Ravendran Pillai Pillai | Member of Management Board |
| Prof. Munawira Pillai | Member of Management Board |

| | |
|---------------------------|--|
| AICTE Representative | WRO, AICTE, Mumbai |
| DTE Representative | DTE, Maharashtra |
| University Representative | UOM, Fort, Mumbai |
| Mr. T.L. Parab | Manager, Town Services III, CIDCO Ltd., Belapur |
| Mr. Ajaykumar Bhatt | Executive Director, Konkan Railway Corporation Ltd. |
| Dr. M. Sasikumar | Director, C-DAC, Mumbai |
| Dr. Bernard Menezes | Scientist and Educationist, IIT Mumbai |
| Mr. Pramod Jadhav | Chief Social Service Officer, CIDCO Ltd., Belapur |
| Mr. Pramod Sadarjoshi | Senior Director, APAC HCM S&T Oracle India Pvt. Ltd. |
| Mr. Tushar Pradhan | Chief Investment officer HSBC, Ford Mumbai |
| Dr. Nivedita Shreyans | Chief Public Relation Officer, MES |
| Mr. Pragnesh Shah | Member, Management Board |
| Dr. Madhumita Chatterjee | Ex-Officio Member, Principal, PHCET |

2.4 College Development Committee Members

| Name of the Member | Status of Committee Member |
|---------------------------|----------------------------|
| Dr. K.M. Vasudevan Pillai | Chairman |
| Dr. (Mrs) Daphne Pillai | Member |
| Dr. Gajendra Patil | Member Secretary |
| Dr. Manvendra Vashitha | Member |
| Mr. Kartik Nagarajan | Member |
| Ms. Neha Nair | Member |
| Ms. Mansi Subhedar | Member |
| Mr. Sameer Dhabolkar | Member |

| | |
|------------------------|--------|
| Mr. Pradnesh Shah | Member |
| Ms. Smedha Sarkar | Member |
| Mr. Dileep More | Member |
| Dr. Mathew T.J. | Member |
| Mr. Jitendra Singh Rao | Member |
| Mr. Pranav Kumbhar | Member |

2.5 Internal Quality Assurance Cell

| Name of the Member | Status of Committee Member |
|--|----------------------------|
| Dr. Madhumita Chatterjee | Chairperson |
| Dr. Lata Menon | Management Representative |
| Mr. Pragnesh Shah | Management Representative |
| Mr. Shirish Mayekar, Registrar, PHCET | Administrative Officer |
| Ms. Sheena Nair, Accountant, PHCET | Administrative Officer |
| Dr. Mansi Subhedar, Head, Department of EXTC Engineering | IQAC Coordinator |
| Dr. Ashok Kanthe, HOD, Computer Engineering | Faculty Members |
| Dr. Gajendra Patil, HOD, Mechanical Engineering | Faculty Members |
| Dr. Manvendra Vashistha, HOD, Department of ASH | Faculty Members |
| Mr. Raju Narwade, HOD, Civil Engineering | Faculty Members |
| Ms. Pranita Chavan, HOD, Electrical Engineering | Faculty Members |
| Dr. J. E. Nalavade, Senior Faculty | Faculty Members |
| Dr. S. S. Pawar, Senior Faculty | Faculty Members |
| Ms. Neha Nair, Exam I/C | Faculty Members |

| | |
|--|-------------------------|
| Mr. Amar Mane, Library I/C | Faculty Members |
| Mr. Swapnil Waghmare, TPO I/C | Faculty Members |
| Dr. Avinash Gatade, Member, Gram Panchayat, Sawale Village | Local Society |
| Ms. Osheen Shrivastava | Alumni Representative |
| Mr. Shabeer Manasawala | Parents Representative |
| Mr. Siddhesh Rane, B.E. Mechanical Dept. | Students Representative |
| Mr. Ripal Shah | Industry Representative |

2.6 College Grievance Redressal Cell

| Name of the Member | Status of Committee Member |
|--------------------------|----------------------------|
| Dr. Madhumita Chatterjee | Chairperson (Principal) |
| Dr. Manvendra Vashista | Member |
| Dr. Mansi Subhedar | Member |
| Ms. Vishakha Gajghate | Member |
| Dr. Ashok Kanthe | Member (Secretary) |

2.7 Internal Complaints Committee

| Name of the Member | Status of Committee Member |
|---------------------|----------------------------|
| Dr. Shilpa Kewate | Chairperson |
| Mr. Asokan Selvaraj | Member |
| Ms. Manisha Jamgade | Member |
| Ms. Sheetal Butle | Non-Teaching Staff Member |
| Ms. Akanksha Patil | P.G. Student Member |
| Ms. Janvhi Chavan | U.G. Student Member |

| | |
|--------------------|--|
| Ms. Sangitha Patil | Class IV Women Employee Representative |
| Dr. Celina Joy | NGO Member |
| Ms. Rohini Bhosale | Member Secretary |

2.8 Anti-Ragging Committee

| Name of the Member | Status of Committee Member |
|---------------------------|----------------------------|
| Dr.. Madhumita Chatterjee | Chairperson |
| Dr. M. D. Nadar | Member |
| Dr. S. S. Pawar | Member |
| Dr. J. E. Nalavade | Member |
| Mr. R. D. More | Member |
| Mr. Raju Narwade | Member |
| Ms. Neha Shivhare | Member |
| Ms. Ekta Ukey | Member |
| Dr. Avinash Gatade | Member |
| Mr. Sanjay Ghodpade | Member |
| Mr. Ashokan Selvaraj | Member |
| Ms. Rao Radhika R. | Member - Female Student |
| Ms. Sharma Anjali Brijesh | Member - Female Student |
| Mr. Patel Het Vinod | Member - Male Student |
| Mr. Patil Davish Shankar | Member - Male Student |
| Mr. Suhas Uthale | Member Secretary |

3 Quality Assurance

3.1 Academic and Administrative Audit (AAA)

Academic and Administrative Audit (AAA), are very essential for the excellence in Higher Education. These are interrelated concepts. Thus in order to have a quality oriented academic, there should be a strong administrative background.

Academic Audit: - Academic audit can be understood as a scientific and systematic method of reviewing the quality of academic process in the institution. It is related with the quality assurance and enhancing the quality of academic activities in the institute.

Administrative Audit: - It can be defined as a process of evaluating the efficiency and effectiveness of the administrative procedure. It includes assessment of policies, strategies & functions of the various administrative departments' control of the overall administrative system etc.

Objectives of AAA:

1. To understand the existing system and assess the strengths and weaknesses of the Departments and Administrative Units and to suggest the methods for quality improvement and for overcoming the weaknesses.
2. To identify the bottlenecks in the existing administrative mechanisms and to identify the opportunities for academic reforms, administrative reforms and examination reformed.

3.2 Perspective Plan

Apr 2019 to Mar 2020

1. Apply for re-accreditation of Comp and Mech Undergraduate programmes in Computer Engineering and Mechanical Engineering.
2. Obtain NABL accreditation for "Strength of Material" and "Material Technology" Laboratories
3. Submit research proposals of cumulative worth of at least Rs. 50.00 lakhs
4. Introduce Ph.D Programmed in Mechanical Engineering
5. Collaboration with CDAC for AI & Robotics Project
6. Organize institute industry meets
7. Organize a seminar on "Consultancy Processes"
8. Conduct additional awareness workshops on "Patent Filing Procedure"
9. Initiate training for aspiring entrepreneurs in Market Survey, Business Analysis, Budget analysis, writing project
10. proposals, and Report writing, etc.
11. Obtain Indian Merchant Chamber's National Quality Certification
12. Change focus of "Public Speaking Forum" from elite activity to a process in which all students participate
13. Launch Version 1.0 of Employability Index

14. Enhance training for students in technical writing and documentation according to international standards.

15. Continue with faculty seminar series and IELTS tests for students and faculty

Apr 2020 to Mar 2024

1. Materialize at least one collaboration with a reputed foreign University.

2. Have at least 40% of the faculty with Ph.D.

3. Enhancing Research, incubation and entrepreneurship activities

4. Increase the existing Inter-departmental projects (as the students have expressed a desire for the same) by 50%.

5. Set up at least one industry sponsored Laboratory

6. Complete at least three Industry sponsored research projects

7. Launch Version 2.0 of Employability Index by Dec 31, 2020

8. Organize minimum two industry meets every year to explore Collaborative research, Students Internship, discussion regarding computation of Employability Index and Mentoring students by Industry personnel

9. Provide Office Space for Entrepreneurs

10. Degree of complexity of Robogria to be scaled up

11. Complete at least two collaborative research projects with Industry

12. Submit at least two research proposals per year of cumulative worth of at least Rs. 1.00 crore

13. Organize an International Conference of three days by Jan 31, 2021

3.3 Quality Initiatives by IQAC

1. Avenues for Research Proposal Submissions

One day expert talk was organized by Internal quality assurance cell of PHCET on 13 Jul 2019. Dr. P.S. Goyal was the guest speaker. Principal, Dr. Madhumita Chatterjee welcomes Dr. P.S. Goyal. He addressed the various aspects of Research Proposal Writing. He also explained various agencies that can offer funds for research projects and their rules and regulations. He also motivated faculty to write good research articles and offered guidelines to choose good journals for research work publication. The session was very informative and motivated all faculty members to work on research projects. Dr. Mansi Subhedar, Co-ordinator, Internal quality assurance cell, PHCET presented vote of thanks.



Figure 2: Dr. Goyal interacting with faculty Members

2. Seminar on Understanding the IMC RBNQ Award Criteria

One day seminar was organised by Internal quality assurance cell of PHCET on Jul 20th, 2019 on the topic " Understanding the IMC RBNQ Award Criteria". Among several initiatives of the IMC Chamber of Commerce and Industry, a significant one was the setting up of Quality Improvement and Technology Committee in 1993 and the Quality Cell. This Expert Committee – chaired by Mr. Niraj Bajaj – instituted the IMC Ramkrishna Bajaj National Quality Award (IMC RBNQA) Trust to administer the Award with a purpose of spreading awareness for quality and fostering competitiveness in Indian Industry. Ms. Maya Desai, Director IMC Ramkrishna Bajaj National Quality Award Trust was the guest speaker. Dr. Mansi Subhedar, IQAC Coordinator presented the summary of quality initiatives taken by PHCET till date and PHCET's initiative to apply for RBNQA. Principal, Dr. Madhumita Chatterjee welcomed Ms. Maya Desai. Ms. Desai explained the application process and the various criteria involved. All teaching faculty attended the seminar. Some case studies were also done within faculty groups under the guidance of Ms. Desai. Dr. Mathew presented vote of thanks and PHCET's future for the quality education.



3.4 Coursera Campus

Pillai Group of Institutions is allowed free registration of Coursera courses through their mes.ac.in email IDs. Students, faculty, alumni and staff are all eligible to improve their skills and abilities. Coursera offers thousands of courses taught by in the world and upto September 2020 official certificates are completely free for all MES affiliates.



4 Academics

4.1 Programs Offered

| Course | Degree | Year of Establishment | Sanctioned Strength |
|--------|--|-----------------------|---------------------|
| BE | 1. Civil Engineering | 2009 | 120 |
| | 2. Information Technology | 2009 | 60 |
| | 3. Computer Engineering | 2009 | 120 |
| | 4. Mechanical Engineering | 2009 | 180 |
| | 5. Elect and Telecommunication Engineering | 2009 | 60 |
| | 6. Electrical Engineering | 2014 | 60 |
| | 7. Automobile Engineering | 2015 | 60 |
| ME | 1. Computer Engineering | 2012 | 18 |
| | 2. Civil Engineering | 2015 | 24 |
| | 3. Mechanical Engineering (Machine Design) | 2012 | 18 |
| | 4. Elect and Telecommunication Engineering | 2014 | 18 |
| Ph.D | 1. Computer Engineering | 2014 | 10 |
| | 2. Civil Engineering | 2015 | 10 |

Faculty details

List of Faculty

| Sr. No. | DEPT. | Name | Qualification | Designation | Date of Appointment |
|---------|-------|-------------------------|---------------------------|---------------------|---------------------|
| 1 | AUTO | Dr. S.S. Pawar | Ph.D. | Professor | 15.03.2019 |
| 2 | AUTO | Ms. Siddhi Hatle | M.Tech. | Assistant Professor | 15.07.2016 |
| 3 | AUTO | Mr. Vaibhav Bhagat | M.Tech. | Assistant Professor | 15.07.2013 |
| 4 | AUTO | Mr. Amar Jadhav | M.Tech, Ph.D Pursuing | Assistant Professor | 04.07.2014 |
| 5 | AUTO | Mr. Vivek Meshram | M.Tech. | Assistant Professor | 4.01.2016 |
| 6 | AUTO | Mr. Saurabh SirsIkar | M.Tech. | Assistant Professor | 15.07.2016 |
| 7 | AUTO | Mr. Nitin Gholap | M.E. | Assistant Professor | 30.07.2014 |
| 8 | AUTO | Mr. Sameer Agale | M.E. | Assistant Professor | 13.01.2016 |
| 9 | CIVIL | Dr. Amit Dasgupta | Ph.D., M.Sc. | Professor | 07.02.2018 |
| 10 | CIVIL | Dr. Shilpa Kewate | Ph.D., M.E. | Associate Professor | 24.05.2019 |
| 11 | CIVIL | Dr. Vinay Nikam | Ph.D., M.Tech. | Professor | 01.06.2018 |
| 12 | CIVIL | Ms. Manisha Jamgade | M.Tech., Ph.D Registered | Associate Professor | 11.07.2012 |
| 13 | CIVIL | Mr. Karthik Nagarajan | M.E. Ph.D. Registered | Associate Professor | 11.10.2010 |
| 14 | CIVIL | Mr. Raju Narwade | M.E., Ph.D. Registered | Associate Professor | 07.07.2012 |
| 15 | CIVIL | Ms. Sonali Baviskar | M.E., Ph.D. Registered | Assistant Professor | 13.07.2011 |
| 16 | CIVIL | Ms. Madhulika Sinha | M.Tech., Ph.D Registered | Assistant Professor | 11.07.2012 |
| 17 | CIVIL | Mr. Anwarul Haque Sayed | M.E., Ph.D. Registered | Assistant Professor | 24.08.2015 |
| 18 | CIVIL | Ms. Apurva Deshpande | M.Tech. | Assistant Professor | 05.07.2016 |
| 19 | CIVIL | Mr. Manish Mane | M.Tech. | Assistant Professor | 05.07.2016 |
| 20 | CIVIL | Mr. Harshal Pathak | M.Tech. Ph.D. Registered | Assistant Professor | 01.07.2016 |
| 21 | CIVIL | Ms. Ashwini P. | Ph.D. Registered, M.Tech. | Assistant Professor | 05.12.2016 |
| 22 | CIVIL | Ms. Steffi Stephen | M.Tech. | Assistant Professor | 17.06.2017 |

| | | | | | |
|----|-------|---------------------------|--------------------------|-----------------------|------------|
| 23 | CIVIL | Mr. Shivraj Patil | M.Tech., Ph.D Registered | Assistant Professor | 01.07.2019 |
| 24 | CIVIL | Mr. Sandeep G.V | M.E., Ph.D. Registered | Assistant Professor | 24.08.2015 |
| 25 | CIVIL | Ms. Gayatri Deshpande | M.E., Ph.D Registered | Assistant Professor | 17.06.2015 |
| 26 | CIVIL | Ms. Smitha J.S | M.E., Ph.D. Registered | Assistant Professor | 14.09.2015 |
| 27 | CIVIL | Mr. Vikash Suresh | M.E. | Assistant Professor | |
| 28 | CIVIL | Mr. Ashish Kulkarni | B.E. | Lecturer | 15.10.2019 |
| 29 | CIVIL | Ms. Poonam Patil | M.E | Assistant Professor | |
| 30 | COMP | Dr. Madhumita Chatterjee | Ph.D., M.Tech. | Principal & Professor | 11.12.2018 |
| 31 | COMP | Dr. Chelapa Lingam | Ph.D., M.Tech. | Professor | 01.03.2011 |
| 32 | COMP | Dr. Ashok Kanthe | Ph.D., M.Tech. | Professor and HoD | 11.03.2016 |
| 33 | COMP | Dr Mathew T. J. | Ph.D, MSc. | Professor | 08.05.2017 |
| 34 | COMP | Ms. Munawira Kotyad | M.S. | Associate Professor | 11.01.2016 |
| 35 | COMP | Ms. Babita Bhagat | M.E., Ph.D. Registered | Associate Professor | 7.01.2013 |
| 36 | COMP | Ms. Rohini Bhosale | M.E., Ph.D. Registered | Assistant Professor | 09.01.2013 |
| 37 | COMP | Ms. Ekta Ukey | M.Tech., Ph.D Registered | Assistant Professor | 01.07.2011 |
| 38 | COMP | Ms. Srijita Bhattacharjee | M.Tech., Ph.D Registered | Associate Professor | 02.01.2013 |
| 39 | COMP | Mr. Swapnil Waghmare | M.E. | Assistant Professor | 26.08.2009 |
| 40 | COMP | Ms. Rajashree Gadhave | M.E, Ph.D pursuing | Assistant Professor | 22.07.2014 |
| 41 | COMP | Mr. Nikhil Raje | M.E., B.E. | Assistant Professor | 03.09.2012 |
| 42 | COMP | Ms. Rajeshri Aneesh | M.E., B.Tech. | Assistant Professor | 12.07.2013 |
| 43 | COMP | Ms. Archana Arudkar | M.E. | Assistant Professor | 12.07.2013 |
| 44 | COMP | Ms. Snehal Shinde | M.E. | Assistant Professor | 26.08.2013 |
| 45 | COMP | Ms. Pooja Pemare | M.E. | Assistant Professor | 24.08.2015 |
| 46 | COMP | Ms. Neetu Pillai | M.E. | Assistant Professor | 01.08.2017 |
| 47 | COMP | Mr. Abhijeet More | M.E. | Assistant Professor | 24.08.2015 |
| 48 | COMP | Ms. Neha Rathi | M.E. | Assistant Professor | 28.07.2014 |

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|----|------|---------------------------|--------------------------------|---------------------|------------|
| 49 | COMP | Ms. Kiranjeet kaur Sandhu | M.E. | Assistant Professor | 28.07.2014 |
| 51 | COMP | Mr. Rahul Kapse | M.E., Ph.D Registered | Assistant Professor | 02.08.2010 |
| 52 | COMP | Ms. Archana Augustine | M.Tech., B.E., Ph.D Registered | Assistant Professor | 01.08.2013 |
| 53 | COMP | Mr. Anish Pillai | M.E. | Assistant Professor | 01.08.2009 |
| 54 | COMP | Ms. Neha Rane | M.E., Ph.D. Registered | Assistant Professor | 1.11.2011 |
| 55 | COMP | Mr. Jacob John | M.E. Ph.D pursuing | Assistant Professor | 14.01.2019 |
| 56 | COMP | Ms. Darshana Wajekar | M.E. | Assistant Professor | 11.01.2019 |
| 57 | COMP | Ms. Tejashree Kadam | B.E. | Lecturer | 01.08.2017 |
| 58 | COMP | Ms. Dipti Raut | M.E. | Lecturer | 19.02.2019 |
| 59 | COMP | Ms. Akanksha Patil | M.E. | Lecturer | 18.02.2019 |
| 60 | ELEC | Ms. Pranita Chavan | M.E., Ph.D. Registered | Assistant Professor | 01.07.2017 |
| 61 | ELEC | Mr. R.D. More | M.E. | Assistant Professor | 10.08.2015 |
| 62 | ELEC | Mr. Kiran Inamdar | M.E. | Assistant Professor | 26.08.2009 |
| 63 | ELEC | Ms. Sangeetha Rajagopal | M.E. | Assistant Professor | 22.07.2013 |
| 64 | ELEC | Mr. Aamir Shaikh | M.E., Ph.D. Registered | Assistant Professor | 02.01.2013 |
| 65 | ELEC | Ms. Panimaya Selvi Isabel | M.E., Ph.D. Registered | Assistant Professor | 21.05.2015 |
| 66 | ELEC | Ms. Sajid K. Shaikh | M.E. | Assistant Professor | 11.11.2015 |
| 67 | ELEC | Ms. Sanobar Naaz Shaikh | M.E. | Assistant Professor | 04.01.2016 |
| 68 | ELEC | Ms. Supriya Shigwan | M.E. | Assistant Professor | 13.08.2013 |
| 69 | ELEC | Ms. Lakshmi C R | M.Tech. | Assistant Professor | 23.01.2017 |
| 70 | ELEC | Mr. Asokan S. | M.E., Ph.D. Registered | Assistant Professor | 29.05.2009 |
| 71 | ELEC | Ms. Ronita Pawn | M.Tech. | Assistant Professor | 08.07.2017 |
| 72 | ELEC | Ms. Shruti Gite | M.E. | Assistant Professor | 22.07.2016 |
| 73 | EXTC | Ms. Divya Y. Chirayil | M.E. Ph.D. Registered | Associate Professor | 16.08.2012 |
| 74 | EXTC | Dr. Mansi S. Subhedar | Ph.D., M.E. | Associate Professor | 16.07.2012 |
| 75 | EXTC | Ms. Swati Nandusekar | M.E. Ph.D. Registered | Assistant Professor | 01.07.2011 |

| | | | | | |
|-----|------|--------------------------------|------------------------------|------------------------|------------|
| 76 | EXTC | Ms. Neha Rai | M.Tech., Ph.D. Registered | Associate Professor | 8.10.2010 |
| 77 | EXTC | Ms. Rekha Dhawan | M.E. | Assistant Professor | 04.07.2011 |
| 78 | EXTC | Mr. Jayesh Rane | M.E., Ph.D. Registered | Assistant Professor | 10.07.2012 |
| 79 | EXTC | Mr. Shashikant Rensushe | M.E. | Assistant Professor | 04.01.2013 |
| 80 | EXTC | Mr. Upendra Patil | M.E. | Assistant Professor | 15.07.2013 |
| 81 | EXTC | Mr. Nitesh Agarwal | M.Tech., Ph.D. Registered | Assistant Professor | 01.07.2014 |
| 82 | EXTC | Mr. Narendra Devidas Dhande | M. Tech | Assistant Professor | 01.07.2011 |
| 83 | EXTC | Ms. Priya Tambe | M.E. | Assistant Professor | 04.06.2016 |
| 84 | EXTC | Mr. Mithun Nair | M.E. | Assistant Professor | 04.08.2014 |
| 85 | EXTC | Mr. Pratik Mhatre | M.E. | Assistant Professor | 01.02.2013 |
| 86 | EXTC | Ms. Pooja Shukre | M.E. | Assistant Professor | 14.07.2014 |
| 87 | IT | Dr. Jagannath Nalavade | Ph.D., M.E. | Associate Professor | 09.05.2019 |
| 88 | IT | Mr. Amol Karande | M.E. | Assistant Professor | 16.08.2013 |
| 89 | IT | Ms. Kajal Patel | M.E. | Assistant Professor | 10.07.2017 |
| 90 | IT | Ms. Monisha Mohan | M.E. | Assistant Professor | 24.08.2015 |
| 91 | IT | Ms. Poonam R .Pathak | M.E. | Assistant Professor | 15.07.2009 |
| 92 | IT | Ms. Prachi Sorte | M.E. | Assistant Professor | 28.07.2014 |
| 93 | IT | Ms. Rupali Sathe | M.E. | Assistant Professor | 15.07.2013 |
| 94 | IT | Ms. Shaikh Fareen | M.E. | Assistant Professor | 04.01.2016 |
| 95 | IT | Ms. Shamna Sadanand | M.E. | Assistant Professor | 01.01.2016 |
| 96 | IT | Mr. Siddesh Khanvilkar | M.E. | Assistant Professor | 26.07.2013 |
| 97 | IT | Ms. Ashwini Khilari | M.E. | Assistant Professor | 24.08.2016 |
| 98 | IT | Ms. Komal Golimbade | M.E. | Assistant Professor | 24.08.2015 |
| 99 | IT | Ms. Priyanka Sonawane | M.E. | Assistant Professor | 24.08.2015 |
| 100 | ASH | Dr. Manvendra Vashistha | Ph.D., M.Sc. | Professor | 24.07.2010 |
| 101 | ASH | Dr. Avinash Gatade | Ph.D. | Assistant Professor | 19.07.2011 |

| | | | | | |
|-----|------|------------------------------|--------------------------|---------------------|------------|
| 102 | ASH | Dr. Avinash Kamble | Ph.D., M.Sc. | Assistant Professor | 20.08.2016 |
| 103 | ASH | Ms. Vishakha Gajghate | M.Sc., Ph.D. Registered | Assistant Professor | 11.07.2012 |
| 104 | ASH | Mr. Nilesh B. Raut | M.Sc., Ph.D. Registered | Assistant Professor | 16.07.2013 |
| 105 | ASH | Mr. Ravindra Rewaskar | M.Sc. | Assistant Professor | 03.08.2012 |
| 106 | ASH | Ms. Sunita Khansole | M.Sc., Ph.D. Registered | Assistant Professor | 26.08.2009 |
| 107 | ASH | Mr. Sanjay Ghorpade | M.Sc., Ph.D. Registered | Assistant Professor | 03.09.2010 |
| 108 | ASH | Ms. Sarita Devi | M.Sc. Ph.D. Registered | Assistant Professor | 02.07.2018 |
| 109 | ASH | Mr. Sathish Umapathi | M.Sc. | Assistant Professor | 11.07.2013 |
| 110 | ASH | Ms. Suma Podnolanna | M.A., Ph.D. Registered | Assistant Professor | 14.07.2014 |
| 111 | ASH | Mr. Vikram Pawar | M.A., Ph.D. Registered | Assistant Professor | 14.07.2014 |
| 112 | ASH | Ms. Vijaya Shelke | M.Sc. | Assistant Professor | 14.07.2014 |
| 113 | ASH | Mr. Jagdish Parate | M.Tech., Ph.D Registered | Assistant Professor | 14.07.2014 |
| 114 | ASH | Ms. Poonam Patil | M.A. | Assistant Professor | 04.09.2014 |
| 115 | ASH | Ms. Shital Rithe | M.Sc. | Assistant Professor | 08.07.2015 |
| 116 | ASH | Ms. Harshada Pratham | M.Sc. | Assistant Professor | 27.07.2017 |
| 117 | ASH | Ms. Navneet Sandhu | M.Sc | Assistant Professor | 03.01.2019 |
| 118 | ASH | Mr. Amarsingh Mane | BLISC, MLISC | Assistant Professor | 01.07.2009 |
| 119 | ASH | Mr. Anuraj Lekurwale | M.Sc. | Assistant Professor | 26.08.2009 |
| 120 | MECH | Dr. Gajendra V Patil | Ph.D., M.E. | Professor | 01.03.2019 |
| 121 | MECH | Dr. Kalyana Sundaram | Ph.D., M.E, | Professor | 13.06.2018 |
| 122 | MECH | Dr.Mariappan Dharmaraj Nadar | Ph.D, PGDIE | Professor | 29.07.2015 |
| 123 | MECH | Dr. R.C. Prasad | Ph.D, M.Tech. | Professor | 27.08.2014 |
| 124 | MECH | Mr. Shishir Kumar Kadam | M.Tech. | Associate Professor | 01.08.2011 |
| 125 | MECH | Mr. Suhas Uthale | M.E. Ph.D. Registered | Associate Professor | 14.07.2012 |
| 126 | MECH | Mr. Sanjai Kumar TRB | M.E. | Associate Professor | 26.07.2012 |
| 127 | MECH | Mr. George Joseph | M.E. | Assistant Professor | 16.08.2010 |

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|-----|------|---------------------------|--------------------------|---------------------|------------|
| 128 | MECH | Mr. Abhijit Aurangabadkar | M.Tech. | Assistant Professor | 01.08.2011 |
| 129 | MECH | Mr. Sunil Singh Rajput | M.E. | Assistant Professor | 14.07.2014 |
| 130 | MECH | Mr. Atul Jade | M.E. | Assistant Professor | 04.01.2014 |
| 131 | MECH | Mr. Manoj Jadhav | M.E. | Assistant Professor | 04.01.2014 |
| 132 | MECH | Mr. Prabhu Ganacharya | M.E. | Assistant Professor | 04.01.2014 |
| 133 | MECH | Mr. Pravin Dahalke | M.E. | Assistant Professor | 15.07.2016 |
| 134 | MECH | Mr. Swapnil Nawale | M.Tech. | Assistant Professor | 02.09.2015 |
| 135 | MECH | Mr. Rahul Wargane | M.Tech., Ph.D Registered | Assistant Professor | 25.07.2016 |
| 136 | MECH | Ms. Jyoti Bankar | M.E. | Assistant Professor | 07.08.2013 |
| 137 | MECH | Mr. Wakse Datta | M.E. | Assistant Professor | 28.08.2013 |
| 138 | MECH | Mr. Shashi Bhushan | M.E., Ph.D. Registered | Assistant Professor | 04.03.2013 |
| 139 | MECH | Ms. Ashwini Kadam | M.E. | Assistant Professor | 15.07.2013 |
| 140 | AUTO | Mr. Anish Shivraj | M.E. | Assistant Professor | 01.02.2017 |
| 141 | MECH | Mr. Hemant Patil | M.E. | Assistant Professor | 08.08.2016 |
| 142 | MECH | Mr. Sagar Patil | M.E. | Assistant Professor | 25.07.2016 |
| 143 | MECH | Ms. Sayali Kulkarni | M.E., Ph.D. Registered | Assistant Professor | 13.06.2017 |
| 144 | MECH | Mr. Aditya Shinde | M.E. | Assistant Professor | 19.06.2017 |
| 145 | MECH | Ms. Ashwini Patil | M.E. | Assistant Professor | 15.07.2013 |
| 146 | MECH | Mr. Omkar Gharat | B.E. | Assistant Professor | 24.09.2018 |
| 147 | MECH | Mr. Ajay Pillai | M.Tech. | Assistant Professor | 30.05.2019 |

List of Faculty Members with Ph. D Qualification

| Sr. No | Dept. | Name |
|---------------|--------------|------------------------------|
| 1 | AUTO | Dr. Sandipan Pawar |
| 2 | CIVIL | Dr. Amit Das Gupta |
| 3 | | Dr. Vinay Nikam |
| 4 | | Dr. Shilpa Kewate |
| 5 | COMP | Dr. Madhumita A Chatterjee |
| 6 | | Dr. Chelpa Lingam |
| 7 | | Dr. T. J Mathew |
| 8 | | Dr. Ashok Kanthe |
| 9 | ELEC | Dr. Panimaya Selvi Isabel A. |
| 10 | EXTC | Dr. Mansi Subhedar |
| 11 | | Dr. Divya Chirayil |
| 12 | IT | Dr. Jagannath E. Nalavade |
| 13 | MECH | Dr. Kalyan Sundaram |
| 14 | | Dr. R.C. Prasad |
| 15 | | Dr. Gajendra Patil |
| 16 | | Dr. M. D. Nadar |
| 17 | ASH | Dr. Manvendra Vashitha |
| 18 | | Dr. Avinash T. Gatade |
| 19 | | Dr. Avinash J. Kamble |

List of Faculty Members Pursuing Ph.D

| Sr. No. | Dept | Faculty Name | Year of Registration | University Name |
|----------------|-------------|---------------------------|-----------------------------|--|
| 1 | AUTO | Mr. Amar Jadhav | 1 Dec 2018 | Mumbai University |
| 2 | CIVIL | Mr. Karthik Nagarajan | 28 October, 2016 | Mumbai University |
| 3 | CIVIL | Mr. Raju Narwade | November 3,2018 | Mumbai University |
| 4 | CIVIL | Ms. Manisha Jamgada | November 3,2018 | Mumbai University |
| 5 | CIVIL | Ms. Madhulika Sinha | November 3,2018 | Mumbai University |
| 6 | CIVIL | Ms. Smitha J.S. | July, 2019 | IIT, Bombay |
| 7 | CIVIL | Mr. Harshal Pathak | August, 2019 | Mumbai University |
| 8 | CIVIL | Ms. Ashwini P | August 2019 | VJTI |
| 9 | CIVIL | Mr. Sandeep Gujjar | July 2015 | VTU, Karnataka |
| 10 | COMP | Ms. Rajashree Gadhawe | 2017-18 | Mumbai University |
| 11 | COMP | Ms. Ekta Ukey | 2019-20 | Mumbai University |
| 12 | COMP | Ms. Babita Bhagat | 7th Nov 2014 | GITM University |
| 13 | COMP | Ms. Neha Rane | 26th April 2018 | Mumbai University |
| 14 | COMP | Mr. Abhijeet More | 2018-19 | Chatrapati Shivaji Ma- haraj Univeristy |
| 15 | COMP | Mr. Jacob John | 2015 | Anna University |
| 16 | COMP | Ms. Srijita Bhattacharjee | 2018-19 | Chatrapati Shivaji Ma- haraj Univeristy |
| 17 | COMP | Ms. Rohini Bhosale | 9-Dec-19 | Mumbai University |
| 18 | COMP | Ms. Archana Augustine | 2015-16 | Amity University Gur- gaon, Haryana |
| 19 | COMP | Mr. Rahul Kapse | 2017-2018 | VTU, Karnataka |

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|----|------|----------------------|-----------------|------------------------------------|
| 20 | ELEC | Ms. Pranita Chavan | May 2019 | Mumbai University |
| 21 | ELEC | Mr. Asokan Selvaraj | July 2019 | IIT Bombay |
| 22 | ELEC | Mr. Aamir Shaikh | 28th April 2018 | NMIMS University |
| 23 | ELEC | Ms. Sangeeta R. | January 2015 | Karpageam University |
| 24 | EXTC | Mr. Pratik Mhatre | 15 July 17 | NMIMS Vile Parle |
| 25 | EXTC | Mr. Upendra Patil | 15 July 17 | NMIMS Vile Parle |
| 26 | EXTC | Mr. Jayesh Rane | 01 Oct 2019 | Mumbai University |
| 27 | EXTC | Ms. Neha Shivhare | 29 March 2019 | Dr. C V Raman University, Bilaspur |
| 28 | EXTC | Ms. Swati Nandusekar | 18 Jan 2018 | BATU University |
| 29 | MECH | Ms. Sayali Kulkarni | August 30, 2018 | VJTI |
| 30 | MECH | Mr. Suhas Uthale | August, 2016 | VJTI |
| 31 | MECH | Mr. Anish K.S | May 2019 | Mumbai University |
| 32 | MECH | Mr. Rahul Wargane | June 2017 | VIT |
| 33 | ASH | Ms. Sunita Khansole | 3 Nov 2015 | Mumbai University |
| 34 | ASH | Ms. Vishaka Gajghate | Nov 2018 | Mumbai University |
| 35 | ASH | Mr Nilesh Raut | 01 Jan 2019 | Mumbai University |
| 36 | ASH | Mr Sanjay ghorpade | 01 Jan 2019 | Mumbai University |
| 37 | ASH | Ms Sarita Devi | April 2014 | Kaithal Haryana |
| 38 | ASH | Ms Suma Lalit | 20 Sept 2008 | Dravidian University |

5.2 Faculty Research Publication

Department of Automobile Engineering

| Sr. No | Title of paper | Author Name | Title of the journal |
|--------|----------------|-------------|----------------------|
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| | | | |
|----|---|----------------------|--|
| 1 | Review of Electric Bike | Dr. S.S. Pawar | International research journal of Engineering and Technology (IF 7.34) |
| 2 | Design and Manufacturing of Automatic Bluetooth Operated Bottle Hydraulic Jack | Dr. S.S. Pawar | International research journal of Engineering and Technology (IF 7.34) |
| 3 | Assembling and Testing of Electric Car | Dr. S.S. Pawar | International Research Journal of Engineering and Technology (IF7.34) |
| 4 | Design and Manufacturing of Automatic Bluetooth Operated Bottle Hydraulic Jack | Dr. S.S. Pawar | International Journal of Research and Analytical Reviews (IF .75) |
| 5 | Design of Rail Guided Vehicle utilized in scrap Charging process in the Steel industry” | Dr. S.S. Pawar | Journal of Emerging Technologies and Innovative Research (JETIR) |
| 6 | A review on Industrial Material Handling Systems | Dr. S.S. Pawar | International Journal of Research and Analytical Reviews (IJRAR) |
| 7 | Review on Design, Analysis and Fabrication of Race Car Chassis | Mr.Saurabh Sir-sikar | International Research Journal of Engineering and Technology (IRJET) |
| 8 | A Review of Engine Cooling System | Mr.Saurabh Sir-sikar | International Research Journal of Engineering and Technology (IRJET) |
| 9 | Review of Design of Intake Manifold for air restricted Engine | Mr. Amar Jadhav | International Research Journal of Engineering and Technology (IRJET) |
| 10 | Design and Analysis of Brake System of a Single Seat Race Car | Mr. Amar Jadhav | International Research Journal of Engineering and Technology (IRJET) |

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|----|--|----------------------|--|
| 11 | Review of Suspension systems for a Race car | Mr. Vaibhav K Bhagat | International Research Journal of Engineering and Technology (IRJET) |
| 12 | Review on Electric Vehicles and Their Components | Mr. Vaibhav K Bhagat | International Journal of Engineering Research |
| 13 | SCRAMBLER: A TYPE OF MOTORCYCLE | Ms. Siddhi Hatle | International Research Journal of Engineering and Technology (IRJET) |
| 14 | Shrimp Sorting Machine | Ms. Siddhi Hatle | International Research Journal of Engineering and Technology (IRJET) |

Department of Civil Engineering

| Sr. No | Title of paper | Author Name | Title of the journal |
|--------|--|---------------------|--|
| 1 | Effect of fly ash and GGBS on strength and durability of concrete upto 90 days. | Ms. Madhulika Sinha | International Journal of Engineering Development and Research |
| 2 | Efficient Combination of Mineral Admixture Durable Concrete | Ms. Madhulika Sinha | International Research journal of Engineering and Technology (IRJET) |
| 3 | Reuse of waste water by using Low cost Method | Mr.Harshal Pathak | International Journal of Engineering Development and Research |
| 4 | A Case Study on Impact of Tar-Ball Pollution on the Beaches of Alibaug (Maharashtra) | Mr Raju Narwade | Journal of Remote Sensing and GIS |
| 5 | Real Time Water Leakage Monitoring System Using IoT Based Architecture | Mr Raju Narwade | i-manager Journal of Civil Engineering |

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| 6 | Experimental Study on Performance of Portland Based PerVIOUS Concrete Using Chemical Supplementaries and Varying Curing Technique” | Mr Raju Narwade | International Journal for Research in Engineering Application & Management (IJREAM) |
| 7 | Prediction of Construction Material Cost using Artificial Intelligence Tools | Mr Raju Narwade | i-manager’s Journal on Civil Engineering (JCE),Volume 9,Issue 4,pp.21-28, |
| 8 | E-Waste :An Alternative to Partial Replacement of Coarse Aggregate in Concrete | Mr Raju Narwade | International Journal of Engineering Research and Technology |
| 9 | Applications of 4D GIS Model in Construction Management | Mr Raju Narwade | INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) |
| 10 | Manufacturing Techniques of Sustainable Recyclable Formwork By A Smart Material Waste Composite Material (WCM) for Infrastructural Projects of Future Cities - A Swachh Bharat Abhiyan Initiative | Mr Raju Narwade | International Journal of Innovative Technology and Exploring Engineering (IJITEE) |
| 11 | Integrated Land-Use Zoning, Using Topographical Data: Optimizing Vacant Space For Urbanization At Akole Taluka, Maharashtra, India | Mr Raju Narwade | International Journal of Management, Technology And Engineering (IJMTE) |
| 12 | Sustainable Smart Blue Roof Network System with application of Geographic Information System (GIS) | Mr Raju Narwade | International Journal of Advanced Research in Engineering and Technology (IJARET) |

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| 13 | E-Waste :An Alternative to Partial Replacement of Coarse Aggregate in Concrete | Mr Raju Narwade | International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) |
| 14 | An Experimental Analysis and Comparison of Properties of Concrete with Recycled Aggregates and Partial Replacement of Cement with Alccofine, | Ms.Gayatri D | INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) |
| 15 | Prediction of Construction Material Cost using Artificial Intelligence Tools | Ms.Gayatri D | |
| 16 | Comparative study of application of highway capacity manual method of automatic signal system to reduce traffic jamming problems at Shivaji Chouk, Kalyan | Ms. Sonali Baviskar | International Journal of Engineering Research and Technology |
| 17 | Land change prediction using Markov change Multi-Layer Perceptron in Navi Mumbai, Maharashtra, India | Ms. Sonali Baviskar | Adalya Journal |
| 18 | Analysis of Change in LULC of Western Ghat by Comparing NDVI and NDWI | Ms. Manisha jamgade | International Journal of Innovative Technology and Exploring Engineering (IJITEE) |
| 19 | Prediction of Construction Material Cost using Artificial Intelligence Tools | Mr. Karthik N | Journal of Remote Sensing and GIS |
| 20 | Real Time Water Leakage Monitoring System Using IoT Based Architecture | Mr. Karthik N | International Journal of Engineering Research and Technology |

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| 21 | Experimental Study on Performance of Portland Based PerVIOUS Concrete Using Chemical Supplementaries and Varying Curing Technique” | Mr. Karthik Nagarajan | International Journal for Research in Engineering Application & Management (IJREAM) |
| 22 | A Case Study on Impact of Tar-Ball Pollution on the Beaches of Alibaug (Maharashtra) | Mr. Karthik N | i-manager’s Journal on Civil Engineering (JCE),Volume 9,Issue 4,pp.21-28, |
| 23 | E-Waste :An Alternative to Partial Replacement of Coarse Aggregate in Concrete | M. Karthik N | i-manager Journal of Civil Engineering |
| 24 | Applications of 4D GIS Model in Construction Management | M. Karthik N | INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) |
| 25 | Manufacturing Techniques of Sustainable Recyclable Formwork By A Smart Material Waste Composite Material (WCM) for Infrastructural Projects of Future Cities - A Swachh Bharat Abhiyan Initiative | Mr Karthik N | International Journal of Innovative Technology and Exploring Engineering (IJITEE) |
| 26 | Integrated Land-Use Zoning, Using Topographical Data: Optimizing Vacant Space For Urbanization At Akole Taluka, Maharashtra, India | Mr Karthik Nagarajan | International Journal of Management, Technology And Engineering (IJMTE) |
| 27 | Sustainable Smart Blue Roof Network System with application of Geographic Information System (GIS) | Mr Karthik N | International Journal of Advanced Research in Engineering and Technology (IJARET) |

Department of Computer Engineering

| Sr. No | Title of paper | Author Name | Title of the Journal |
|---------------|---|--------------------|---|
| 1 | EESCT: Enhanced Evolutionary Self-Co-operative Trust Based Routing Protocols for MANETS | Dr Ashok Kanthe | Journal of Applied Science and Computations(JASC) |
| 2 | Software Testing Techniques and Automation Tools | Ms Babita Bhagat | Mukt Shabd Journal |
| 3 | A survey: Affect of various viruses on human health | Ms Babita Bhagat | International Journal of Multi-disciplinary Research and Development |
| 4 | Sceduling of Task in CloudUsing a Different Algorithm & Working of Modified PSO | Ms Babita Bhagat | International Journal of Research in Engineering & Technology |
| 5 | Facebook User Advertisement Click Prediction | Ms Babita Bhagat | International Journal of Research in Business Management |
| 6 | News Article on Online House Tax Billing Services Using Cloud Computing | Ms Babita Bhagat | International Journal of Research in Business Management |
| 7 | Summarized Audio Book Recommedation System With Open Source Data | Ms Babita Bhagat | International Journal of Research inEngineering & Technology |
| 8 | Smart Grid Using Machine Learning | Ms Babita Bhagat | Iconic Research And Engineering Journals |
| 9 | A Survey on Various Communication Applications | Ms Babita Bhagat | International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) |
| 10 | Handling Big Data Using a Hungarian Assessment Model And Clustering | Ms Babita Bhagat | IJRAR |

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|----|---|------------------|---|
| 11 | A thorough analysis of Rainfall Prediction methods through Machine Learning | Ms. Ekta Ukey | Engineering & Technology |
| 12 | Software Testing Techniques and Automation Tools | Ms. Srijita B | Mukt Shabd Journal |
| 13 | Water Quality Monitoring System based On Sensors and on-line updates | Ms. Srijita B | International Research Journal of Engine and technology |
| 14 | Facial Expression Detection using PCA | Ms. Srijita B | International Research Journal of Engineering and Technology (IRJET) |
| 15 | Artificial Intelligence Based Industrial Product Maintenance Using IoT | Ms. Srijita B | Iconic Research And Engineering Journals |
| 16 | Solid Waste Monitoring using IoT | Ms. Srijita B | International Research Journal of Engineering and Technology (IRJET) |
| 17 | A Survey on Various Communication Applications | Ms. Srijita B | International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) |
| 18 | Enriching Fake Colorized Image Detection | Ms. Neetu Pillai | International Journal Of Research And Analytical Reviews (IJRAR) |
| 19 | Fake colorized and morphed image detection using convolutional neural network | Ms. Neetu Pillai | ACCENTS Transactions on Image Processing and Computer Vision |

Department of Electrical Engineering

| Sr. No | Title of paper | Author Name | Title of the journal |
|---------------|-----------------------|--------------------|-----------------------------|
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|----|---|-------------------------|--|
| 1 | Vehicular Movement Wind Turbine Generation | Ms.Sangeetha Rajagopal | International Journal of innovation Research and Technology |
| 2 | Van De graaff generator | Ms. Sangeetha Rajagopal | International Journal of scientific research and development |
| 3 | Modified Perturb and Observe MPPT Algorithm for Drift Avoidance using SEPIC converter | Ms Pranita Chavan | International Research Journal of Engineering and Technology (IRJET) |
| 4 | Harmonic detection and measurement in power system | Ms Pranita Chavan | International Journal of innovation Research and Technology |
| 5 | Electric Bike with Milage enhancement | Ms Pranita Chavan | International Journal of innovation Research and Technology |
| 6 | Harmonic detection and measurement in power system | Ms Pranita Chavan | Journal of control system and its recent Deelopments |
| 7 | Energy Audit: Case study of an Institute | Mr. Asokan S | Internatioal journal of Advance reserach ,Ideas and Innovations in Technology(IJARIIT) |
| 8 | High Voltage Dc Geneator By Using Dual Channel Marx Generator | Mr. Asokan S | International Journal of innovation Research in Technology |
| 9 | Review of Microstrip Array Antenna for various Applications | Mr. Aamir S | International Journal of Innovative Research in Technology |
| 10 | Microstrip Filter Design for Wireless Communication Applications | Mr. Aamir S | International Journal of Modernization in Engineering Technology and Science |
| 11 | Smart System using Solar Panel for Irrigation | Mr. Aamir S | International Journal of Innovative Research in Technology |

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|----|--|---------------------|--|
| 12 | Non Invasive E-Health Care Monitoring System using IOT | Mr. Aamir S | International Journal of Innovative Research in Technology |
| 13 | Beach Cleaning Robot | Ms. Sanobar Shaikh | International Journal of Innovative Research in Technology |
| 14 | IoT based home automation using Adafruit and google assistant | Ms. Supriya Shigwan | International journal for scientific research and development |
| 15 | Microgrid control and protection | Ms. Supriya Shigwan | International journal of innovative research in technology |
| 16 | Power Generation Using Hybrid Renewable Energy Resources | Ms. Supriya Shigwan | Journal of emerging Technologies and innovative research |
| 17 | Advanced Techniques and Emerging Trends in solar photovoltaic technologies | Ms. Supriya Shigwan | International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, |

Department of Electronics and Telecommunication Engineering

| Sr. No | Title of paper | Author Name | Title of the Journal |
|--------|--|--------------------|--|
| 1 | Image steganography using contourlet transform and matrix decomposition techniques | Dr. Mansi Subhedar | Springer Multimedia Tools and Applications |
| 2 | Secure image steganography using framelet transform and bidiagonal SVD | Dr. Mansi Subhedar | Springer Multimedia Tools and Applications |
| 3 | Vertical Handover Analysis in Heterogeneous Wireless Network using Machine Learning Techniques | Dr. Divya Chirayil | Springer book series in Electrical Engineering |

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|----|--|------------------------|---|
| 4 | Smart Aquaponic Farming Using IOT & Mobile Computing | Dr. Divya Chirayil | International Journal of Advanced Research in Computer and Communication Engineering |
| 5 | Non Invasive E-Health Care Monitoring System using IoT | Mr. Pratik Mhatre | International Journal of Innovative Research in Technology |
| 6 | Water Supply Monitoring & Controlling System with Water Theft Identification | Mr. Jayesh Rane | Iconic Research And Engineering Journals |
| 7 | Experimental Based Learning and Modeling of Computer Networks | Mr. Jayesh Rane | International Journal of Trend in Scientific Research and Development |
| 8 | Voice Based Hot Cold Water Dispenser | Mr. Mithun Nair | International Research Journal of Modernization in Engineering Technology and Science |
| 9 | Real Time Tracking of Water tanker using GPS,GSM and Arduino | Mr. Upendra Patil | International Journal of Advance Research, Ideas and Innovations in Technology |
| 10 | IOT based early flood detection and avoidance | Ms. Priya Tambe | Iconic Research And Engineering Journals |
| 11 | Accident Identification and Alerting system | Mr. Shashikant Renushe | International Research Journal of Modernization in Engineering Technology and Science |

Department of Information Technology

| Sr. No | Title of paper | Author Name | Title of the Journal |
|--------|----------------|-------------|----------------------|
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| | | | |
|---|--|------------------|--|
| 1 | Android based attendance and prediction system | Ms Rupali Sathe | IRJET |
| 2 | Smart billboard system using data mining and IOT | Ms Rupali Sathe | IRJET |
| 3 | Smart greenhouse system using IOT | Ms Rupali Sathe | International Journal for research trends and innovation |
| 4 | Automobile Dealing Application using Blockchain | Ms Farheen Talib | International Journal for research trends and innovation |

Department of Mechanical Engineering

| Sr. No | Title of paper | Author Name | Title of the Journal |
|--------|--|---------------------|--|
| 1 | Corrosion behaviour of ZrO ₂ -TiO ₂ nano composite coating on stainless steel under simulated marine environment | Mr. Ajay A V Pillai | (Elsevier), Materials Today: Proceedings Volume 27, Part 3, 2020 |
| 2 | Mechanical characterization of neat epoxy and failure analysis by using FEM | Mr. Suhas Uthale | International conference on functional materials |
| 3 | DESIGN AND CFD ANALYSIS OF CEILING FAN FOR REGULAR ROOM SIZE | Dr. Gajendra Patil | International Journal of Mechanical Engineering and Technology (IJMET) |
| 4 | Some Investigation on Reflux Divider for Analysis of Reflux Ratio | Mr Pravin Dhalke | Think India Journal |
| 5 | Design optimization of Thresher | Mr Rahul Warghane | ICDAC 2020 (Open Journal of Bioinformatics) |

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|---|--|--------------------|---|
| 6 | Design, Development & Validation of Electrostatic Husk Collector | Mr. Rahul Warghane | Advances in Intelligent Systems and Computing (Springer Link) |
|---|--|--------------------|---|

Department of Applied Science and Humanity

| Sr. No | Title of paper | Author Name | Title of the Journal |
|--------|---|-------------------------|---|
| 1 | Effect of Nanoceramics on Processing Oil | Mr. Sanjay Ghorpade | International journal of science and research |
| 2 | Numerical Study on CO2 injection in Indian Geothermal reservoirs using COMSOL Multiphysics 5.2a | Dr. Manvendra vashistha | Springer Proceedings in Energy |
| 3 | Soft computing - Fuzzy Logic: An overview | Dr. Avinash Kamble | International Journal of Fuzzy Mathematical Archive |
| 4 | On Structure of Order Graphs Arising from Groups | Dr. Avinash Kamble | Annals of Pure and Applied Mathematics |
| 5 | LDTM for homogenous and non homogenous Partial differential equations | Ms. Sarita devi | International Journal for Social Studies -Eduindex |

5.3 Minor Research Projects Sanctioned by University of Mumbai

| Sr. No. | Dept. | Name of PI & Co-PI | Title of the Project | Fund Sanctioned |
|---------|-------|--------------------|--|-----------------|
| 1 | AUTO | Mr. Amar Jadhav | Development of bench top dynamic mechanical analyzer for soft material characterization. | 50,000.00 |

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|----|-------|---------------------------------------|---|-----------|
| 2 | AUTO | Mr. Vivek Meshram | Experimental Testing and replacement of plastic in moulding of solid toys moulded with eco-friendly materials | 35,000.00 |
| 3 | CIVIL | Mr. Karthik Nagarajan | Simulation of 3D Digital Elevation Model (DEM) for Rural Villages by acquiring ISRO Satellite Image - A Remote Sensing and GIS Approach | 40,000.00 |
| 4 | CIVIL | Mr. Manish Mane | Environmental impact assessment of Patalganga Industrial Area. | 30,000.00 |
| 5 | COMP | Ms. Rohini Bhosale | Design And Construction of Arduino Based Aid Visually Impaired People | 30,000.00 |
| 6 | COMP | Mr. Nikhil Raje | Translating Sign Language to Speech Using Flex Gloves For Deaf & Dumb | 30,000.00 |
| 7 | COMP | Ms. Kiranjeet Kaur & Ms. Prachi Sorte | Swarm Robotic System For Mapping And Exploration of Extreme Environment | 20,000.00 |
| 8 | COMP | Ms. Neha Rane | Krishibuddy (Smart farming using IoT & AI) | 25,000.00 |
| 9 | COMP | Ms. Neha Rathi | Blockchain and Smart Contract for Digital Certificate | 15,000.00 |
| 10 | ELEC | Mr. Aamir Shaikh & Ms. Pranita Chavan | Regenerative Bike with mileage enhancement | 35,000.00 |
| 11 | ELEC | Ms. Sanobar S & Ms. Supriya Shigwan | Beach cleaning Robot | 35,000.00 |
| 12 | EXTC | Dr. Mansi Subhedar | Dematerialized Vehicle Documents and Anti-Theft Mechanism for Vehicles Using Data Analytics Methods | 25,000.00 |

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|----|-------------|---------------------|---|-------------------|
| 13 | EXTC | Mr. Jayesh Rane | Public Water Supply Monitoring and controlling system using water theft identification to avoid water tampering | 35,000.00 |
| 14 | MECH | Mr. Rahul Warghane | Dry Compactor for Crop Residue | 42,000.00 |
| 15 | MECH | Mr. Suhas A. Uthale | Mechanical characterization of woven fabric hybrid polymeric nan composite and its failure analysis by FEM | 50,000.00 |
| 16 | IT | Ms. Talib Farheen | Railway track crack detection system using IOT | 30,000.00 |
| 17 | IT | Ms. Rupali Sathe | IOT based intelligent digital bill board : The future of outdoor advertisement | 30,000.00 |
| 18 | IT | Ms. Komal Golimbade | Implementation of Chatbot using deep learning | 20,000.00 |
| 19 | ASH | Dr Avinash Kamble | A study on Fuzzy soft sets & its applications | 35,000.00 |
| 20 | ASH | Ravi Rewaskar | A study on Spectral graph theory & its applications | 25,000.00 |
| 21 | ASH | Sunita Khansole | Efficacy of Bio fertilizers: A Field Scale Study Of Sawale Village For Sustainable Farming | 25,000.00 |
| 22 | ASH | Nilesh Raut | Automatic Load switching depending on availability of Sunlight for controlled Home Energy Consumption | 40,000.00 |
| | Total Grant | | | Rs. 7,02,000/- |

Activities Conducted in the Department during Covid-19 Lockdown

| Sr. No | Dept. | Title of Activity | Date | Resource Person/ Coordinator |
|---------------|--------------|--|---------------|---|
| 1 | AUTO | Online Technical Quiz - Basics of Automobile Engineering | 14-18 May 20 | Mr. Saurabh Sirsikar |
| 2 | AUTO | Webinar - An Overview of a Driverless Car | 30-May-20 | Dr. Dattatraya Parle, Ex-Scientist of BARC, PhD from IIT Bombay |
| 3 | AUTO | Webinar on -Engine for e-mobility BLDC motrs | 31-May-20 | Mr. Nagendra Pratap Singh, Diretor and CEO of P.G. Lab. Pvt. LTD., Vashi, Navi Mumbai |
| 4 | AUTO | QC Tools in Automobile Industry | 16-Jun-20 | Mr. Saurabh Sirsikar |
| 5 | AUTO | Use of LATEX | 17-Jun-20 | Mr. Amar Jadhav |
| 6 | AUTO | Machine Learning - SAE Western Wing | 19-Jun-20 | Dr. S. S Pawar and Mr. Vaibhav Bhagat |
| 7 | AUTO | Faculty Seminar series | 01 -07 Jun 20 | Faculty Members of Automobile Engineering |
| 8 | AUTO | Automobile - CFD Analysis | 24-Jun-20 | Dr. Dattatraya Parle, Ex-Scientist of BARC, PhD from IIT Bombay |
| 9 | AUTO | Webinar on Solar Energy | 26-Jun-20 | Mr. Nagendra Pratap Singh, Diretor and CEO of P.G. Lab. Pvt. LTD., Vashi, Navi Mumbai |

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| 10 | AUTO | Webinar on Use of Python and MATLAB for Engineering Applications | 27-Jun-20 | Mr. S.N.Kadam Pillai HOC College of Engineering and Technology Rasayani |
| 11 | AUTO | How to write project report in LATEX | 29-Jun-20 | Dr. Satish Verma, Pillai College of Engineering, Panvel |
| 12 | CIVIL | Expert lecture on Outcome based Education: Attainment of COs and Pos, | 24-Apr-20 | Dr. G. V. Patil Pillai HOC College of Engineering and Technology Rasayani |
| 13 | CIVIL | Webinar on Effective teaching Methodology | 05-May-20 | Dr. M. N. Shesha Prakash PhD IISC,Bengluru |
| 14 | CIVIL | Webinar on Futuristic Engineering | 13-May-20 | Dr, Hussain ,North Maharashtra University |
| 15 | CIVIL | Technical Quiz (For admission Promotion) | 12-May-20 | NA |
| 16 | CIVIL | Webinar on Green Building and Sustainability | 14-May-20 | Mr. Bhavesh Mehata, Deputy General Manager, Reliance Industries Limited, Navi Mumbai |
| 17 | CIVIL | Webinar on Role of Supplementary Cementitious Materials on Concrete Durability | 19-May-20 | Mr. Sadanad Govilkar, Managing Director, Avant-Tech Lab and Research Centre, Navi Mumbai |
| 18 | CIVIL | A webinar on Conservation of Water by Intensive Afforestation and Rainwater Harvesting | 25-May-20 | Dr. Pradeep N. V., Senior Environmental Consultant and Nisarg Consultant, Belagavi, Karnataka |

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| 19 | CIVIL | Webinar on Geotechnical aspect for design and Construction of Nuclear facility | 30-May-20 | Mr. Nithesh Narayanana, Scientific Officer, Indira Gandhi Centre for Atomic Research, Kalpakkam, Chennai |
| 20 | CIVIL | E- Quiz on the occasion of World Environment Day | 31-5 Jun 20 | NA |
| 21 | CIVIL | Webinar on Design of Steel Structure using Tekla | 06-Jun-20 | Ms. Sowmya MK, CAAD Centre, Chennai |
| 22 | CIVIL | Faculty Seminar series | 04-Jun-20 | Department faculty |
| 23 | CIVIL | Short Term Training Program on Post Covid Challenges in Infrastructural Engineering and Environmental Engineering | 08-Jun-20 | <ol style="list-style-type: none"> 1. Dr. Sunil Kute, Dean, KK Wagh Institute of Engineering Education and Research. 2. Mr. Vikas Ramgude, Superintending Engineer, PWD, Maharashtra 3. Prejith P, Assistant General Manager, Dilip Buildcon 4. Dr. S Ganapthy Venkatsubramaniam, Professor, Anna University, Chennai 5. Dr Rajesh Gujjar, Assistant Professor, Pandit Deen Dayal Petroleum University, Gujarat 6. Mr. Suyash Mandal, Research Scholar, The University of Queensland University, Brisbane, Australia |

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| 24 | CIVIL | Indian Green Building Council Student Chapter Virtual Inauguration and Symposium on Green Building | 26-Jun-20 | 1. Mr. Bhavesh Mehta 2. Mr S Karthikeyan 3. Mr. Sandip Shirke 4. Mr. Sandeep Talaulikar |
| 25 | CIVIL | A Webinar on " Yoga Affirmation to train Your Sub-conscious Mind | 27-Jun-20 | Dr Rashmi Manjunath Nookala |
| 26 | CIVIL | Faculty Development Program cum Orientation Program in association with University of Mumbai | 09-Jul-20 | 1.Dr. Ajay Radake 2. Dr. Y S Patil 3. Dr. N G Gore 4. Mr. Dada Patil 5. Mr Raju Narwade |
| 27 | COMP | One-week Faculty Development Program on Python | 21- 25 Apr 20 | IIT Spoken Tutorial Bombay, MHRD, Govt of India |
| 28 | COMP | Technical Quiz | 26-Apr-20 | Ms. Pooja Pemare, Faculty of Computer Engg |
| 29 | COMP | Industry Expert Lecture on "Machine Learning" | 1- 2 May 20 | Mr. Pramananda Barik, Sr. Team Leader, Persistant Systems Pune |
| 30 | COMP | FDP on "Networking, Routing and Switching Essentials" | 4 - 6 May 20 | Dr. Madhumita Chatterjee, Principal PHCET |
| 31 | COMP | Quiz on Quantitative assessment | 11-May-20 | Mr. Abhijeet More, Ms. Pooja Pemare, Ms. Snehal Shinde |
| 32 | COMP | Quiz on Basic Computing (for admission promotion) | 12 -17 May 20 | Ms Neha Rane, Dr. Ashok Kanthe |

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| 33 | COMP | Faculty seminar series | 1 - 12 Jun 20 | Departmental Faculty |
| 34 | COMP | Technical Quiz - "Computer Knowledge Quiz" | 15 - 20 Jun 20 | Ms. Neetu Pillai |
| 35 | COMP | Webinar on "E-waste management" | 17-Jun-20 | Ms. Dhanashri Patil, SRO,MPCB |
| 36 | COMP | Technical Quiz on Python | 18 -20 Jun 20 | Mr. Nikhil Raje |
| 37 | COMP | Webinar on "Machine Learning" | 18-Jun-20 | Mr. Subhash Bhaskaran, Solution Architech, LTI, Powai,Mumbai |
| 38 | COMP | GeekQuiz | 19-Jun-20 | Ms. Babita Bhagat, Ms. Sri- jita Bhattacharjee |
| 39 | COMP | Webinar on "How to Prepare for Placement" | 20-Jun-20 | Ms. Moksha Jiwane, TCS |
| 40 | COMP | CodeVanza(coding Competition) | 20-Jun-20 | Ms. Babita Bhagat, Ms. Sri- jita Bhattacharjee |
| 41 | COMP | Webinar on "Ethical Hacking" | 20-Jun-20 | Mr. Chaitanya Satish Veer, Assistant manager, Reliance Jio Infocom(Alumni) |
| 42 | COMP | DigiArt | 21-Jun-20 | Ms. Babita Bhagat, Ms. Sri- jita Bhattacharjee |
| 43 | COMP | Webinar on "Data Science" | 22-Jun-20 | Mr. Shabbir Khedawala, Business Analyst (Data Science), Reliance Retail, Ghansoli |
| 44 | COMP | Technical Quiz on "AI" | 24 - 25 Jun 20 | Ms. Pooja Pemare, Mr. Ab- hijeet More |

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| 45 | COMP | How to set roadmap for a startup? | 25-Jun-20 | Ms. Smedha Sarkar, Founder and MD, Edumaan Training Services LLP (Alumni) |
| 46 | COMP | SE Orientation program | 25-Jun-20 | Ms. Srijita Bhattacharjee, Ms. Ekta Ukey |
| 47 | COMP | Webinar on "Predictive Analytics few case study" | 26-Jun-20 | Mr. Rajesh Kulkarni, Director of SIGCOE, Navi Mumbai |
| 48 | COMP | Webinar on "Securing data in US healthcare" | 27-Jun-20 | Mr. Jaffer Shaikh, Bizmatics Inc. (Alumni) |
| 49 | COMP | Hands on workshop on "Hybrid Application Development using Ionic 5.0 and Angular9" under CSI | 27-Jun-20 | Mr. Hussain Mansawala, Assistant System Engineer, TCS (Alumni) |
| 50 | COMP | Webinar on "Exploring yourself globally: Higher Education Opportunities" | 29-Jun-20 | Dr. Tanuja Dhope, Associate professor, E&TC Department, JSPM Rajarshi Shahu College of engineering Pune. |
| 51 | COMP | Webinar on "Understanding Cloud Security and Its Importance" | 29-Jun-20 | Mr Gokul Alex, Chief Technology officer, BeyondIdentity, Founder of Epic Knowledge Society |
| 52 | COMP | Webinar on "Self-Discovery" | 30-Jun-20 | Mr. Arvind Navgire, Founder of Arvind Learning Solutions, Pune |

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| 53 | COMP | BE Project Orientation, seminar on how to write technical paper | 01-Jul-20 | Seminar conducted by Dr. Ashok Kanthe, Coordinators-Ms. Babita Bhagat, Ms. Srijita Bhattacharjee |
| 54 | COMP | Webinar on "Data Visualization using Python" | 03-Jul-20 | Mr. Pankaj Kunekar, Assistant Professor at Atharve College of Engineering |
| 55 | COMP | Webinar on "Oracle DB Components and PL/SQL" | 04-Jul-20 | Mr. Tejas Patkar, Syntel, Scotland, UK |
| 56 | COMP | A Webinar on "Insights into AI & Analytics Careers Post Covid-19" | 04-Jul-20 | Mr. Mukesh Jain, CTO Capgemini |
| 57 | COMP | Webinar on "Opportunities & Career Path of IT Engineer" | 04-Jul-20 | Mr. Sandeep Manware, Straviso, Pune |
| 58 | ELEC | Webinar on Switchgear and motors by Siemens SITRAIN | 25-Apr-20 | Expert from Siemens |
| 59 | ELEC | Seminar on Career in Merchant Navy by NPTEL | 28-Apr-20 | Capt. Kripakaran |
| 60 | ELEC | Seminar on In response to COVID19: Time Management by NPTEL | 17-Apr-20 | Dr. Pratima Khandelwal |
| 61 | ELEC | Expert Lecture on "PLC and SCADA: Scope in Industry" | 29-Apr-20 | Sr. Project Engineer, Control and Automation System Pune |
| 62 | ELEC | Faculty Seminar Series | 5 - 8 Jun 20 | Departmental Faculty |

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| 63 | ELEC | Guest Lecture on , "An overview of Electrical Vehicle Technology" | 08-May-20 | Research Scholar, VJTI ,Visiting Research Scholar Chulangkorn University, Bangkok, Thailand |
| 64 | ELEC | Expert Lecture on, "Iterative Learning Control" | 22-May-20 | Dr. Vinodh Kumar. E, Associate Professor, School of Electrical Engineering, Vellore Institute of Technology, |
| 65 | ELEC | Quiz on Fundamentals in Electrical Engineering | 17-May-20 | Students of various Institutes |
| 66 | ELEC | Faculty Seminar Series | 05-Jun-20 | Departmental Faculty |
| 67 | ELEC | Expert talk "One Step Ahead- Self Management | 18-Jun-20 | Ms. Prachi Thakur,, Psychologist , Social Activist, Counsellor and Motivational Speaker |
| 68 | ELEC | Seminar on, How to select and prepare Final Year Project | 19-Jun-20 | Ms. Pranita Chavan, Mr. Aamir Shaikh |
| 69 | ELEC | Expert lecture on Arduino prototype to commercial Product". | 20-Jun-20 | Ms. Ruchira Patole, Assistant Professor, PCE |
| 70 | ELEC | Guest lecture on "Placement Readiness" | 25-Jun-20 | Mr. Manish Phadke Training and Placement Officer at NCERD's Sterling Institute of Management Studies, Nerul Navi Mumbai. |
| 71 | ELEC | Expert Lecture on, " Use of IOT in Electrical Engineering" | 26-Jun-20 | Mr. Pratik Mokashi, an Embedded Engineer at RAZR Private Ltd. |

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| 72 | ELEC | Expert Lecture on, "Introduction to Machine Learning". | 27-Jun-20 | Mr. Rahul Kodag, Research Scholar at IIT Kanpur |
| 73 | ELEC | Expert Lecture on, "Latex". | 03-Jul-20 | Mr. Jayesh Rane, Assistant Professor, EXTC, PHCET |
| 74 | ELEC | Seminar on, "Solar Photovoltaics and research aspects" | 04-Jul-20 | Mr. Asokan Selvraj |
| 75 | EXTC | Seminar on "Antenna Design using HFSS and CST Software" | 14-Apr-20 | Mr. Pratik Mhatre |
| 76 | EXTC | Seminar on Wireshark | 08-Apr-20 | Dr Mansi Subhedar |
| 77 | EXTC | One Week webinar series on recent trends in EXTC Engineering | 11-May-20 | Experts from Academia and Industry |
| 78 | EXTC | Quiz on PCB Design Process | 15-May-20 | Students of various Institutes |
| 79 | EXTC | Quiz on Fundamentals in Electronics and Telecommunication Engineering | 10-May-20 | Students of various Institutes |
| 80 | EXTC | FDP on Electronics System Design, Modelling and Simulation | 08-Jun-20 | Faculty of various Institutes |
| 81 | EXTC | Faculty Seminar Series | 11-Jun-20 | All faculty |
| 82 | EXTC | Webinar on Machine Learning Applications | 15-Jun-20 | Dr. Mansi Subhedar |

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| 83 | EXTC | Webinar on Statistics for Data Analysis | 17-Jun-20 | Dr. Chandrakant Gaikwad, HOD, Department of EXTC, RAIT, Nerul, Navi Mumbai |
| 84 | EXTC | Webinar on Getting Started with Raspberry Pi | 18-Jun-20 | Prof. Jitendra Sonawane, Assistant Professor, Department of EXTC, RAIT, Nerul, Navi Mumbai |
| 85 | EXTC | Webinar on Indian Space Revolution | 19-Jun-20 | Mr. Nitesh Agrawal, Former Researcher at LCU, China Rsearch Scholar, IIST, Thiruvananthapuram |
| 86 | EXTC | Second Year Online Orientation Program | 22-Jun-20 | All Faculty Members |
| 87 | EXTC | Seminar on Project Based Learning Ideas and Process of Topic Selection | 23-Jun-20 | Mr. Upendra Patil, PBL Coordinator and EXTC Faculty Members |
| 88 | EXTC | Seminar on Project Ideas and Topic | 24-Jun-20 | Mr. Jayesh Rane, Project Coordinator and EXTC Faculty Members |
| 89 | EXTC | Webinar on Webinar on RF Filter Design | 25-Jun-20 | Mr. Mithun Nair |
| 90 | EXTC | Webinar on Sensors and Applications | 26-Jun-20 | Ms. Rekha Dhawan |
| 91 | EXTC | Online Workshop on Arduino Programming | 27-Jun-20 | Mr. Upendra Patil, |
| 92 | EXTC | Online Aptitude Test for SE,TE and BE EXTC Students | 30-Jun-20 | Students of EXTC Department |

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| 93 | EXTC | Webinar on C for Everyone: Programming Fundamentals PART: I | 01-Jul-20 | Ms. Rajashree Aneesh |
| 94 | EXTC | Webinar on C for Everyone: Programming Fundamentals PART: II | 02-Jul-20 | Mr. Jayesh Rane |
| 95 | EXTC | Webinar on Artificial Intelligence in Health Care | 03-Jul-20 | Dr. Manjusha Joshi, NMIMS MPSTME |
| 96 | IT | Webinar on Cloud Computing & DevOps | 15-Apr-20 | Mr. Ramesh Kharat |
| 97 | IT | Webinar on Python & Machine Learning | 26-Apr-20 | Mr. John Rodrigues |
| 98 | IT | Webinar on IPR and Patenting | 05-Oct-20 | Dr. R.H.Kulkarni |
| 99 | IT | Webinar on IoT and machine Learning | 29-May-20 | Mr. Neeraj Kumar Technoriya eTechnologies Pvt Ltd. |
| 100 | IT | Programming Quiz Competition Debug the Bug | 27-29 May 20 | Students of various Institutes |
| 101 | IT | Faculty Seminar Series | 08-Jun-20 | All IT Faculty members |
| 102 | IT | FDP on Python and its interdisciplinary Applications | 8-12 Jun 20 | Mr. Swapnil Jawahire, Mr. Vivekkumar, Mr. S.N.Kadam |
| 103 | IT | Webinar on Java Basics | 15-Jun-20 | Mr.Amol Karande |
| 104 | IT | Webinar on Converging Technologies -Next Generation Wireless Network | 15-Jun-20 | Dr. Divya Y. Chirayil |

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| 105 | IT | Webinar on Interview Techniques and Industry Readiness | 16-Jun-20 | Prof. Sanjay Jadhav (Secretary, MaTPO) |
| 106 | IT | Webinar on Big Data with Keras | 17-Jun-20 | Prof. Likhesh Kolhe |
| 107 | IT | Webinar on Cyber Security Threats and Challenges | 17-Jun-20 | Dr. Varun Kapoor (IPS Officer Madhya Pradesh) |
| 108 | IT | Webinar on Introduction to Database | 18-Jun-20 | Shamna Sadanand |
| 109 | IT | Webinar on Future of IOE, IoT for Music Therapy | 18-Jun-20 | Mr. Yogesh Pingale, Mrs. Vaishali Pardesi |
| 110 | IT | Webinar on Basics of web Programming | 18-Jun-20 | Mr. Rupesh Patil(Vertile Ltd, Pune) |
| 111 | IT | workshop on Youth Leadership Programme | 18-Jun-20 | Dr. Uday Salunkhe |
| 112 | IT | Webinar on Internet of Things | 19-Jun-20 | Mr. Atul Sali Co-Founder/CEO, Orange Oranges Technologies Ltd., Canada Dr.M.S.Chaudhari (Professor, SIT, Lonavala) |
| 113 | IT | Webinar on The Future landscape of E-Commerce | 19-Jun-20 | Mr. Saurabh Mhase |
| 114 | IT | Webinar on GPU Computing | 20-Jun-20 | Prof. Sandip Mane (Asst. Professor, RIT, Sakhrale-Sangli) |
| 115 | IT | Webinar on Understanding Azure Cloud | 24-Jun-20 | Mr.Sanket Ghorpade Cloud Consultant, Rapid Circle |

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| 116 | IT | Webinar on Starting a Business and Global Career | 24-Jun-20 | Mr. Atul Sali CEO, Orange Oranges Technologies Ltd Canada |
| 117 | IT | Webinar on RPA-Robotic Process Automation | 25-Jun-20 | Ms. Praveena Livewire- A Division of CADD Centre |
| 118 | IT | Webinar on Software Testing Tools | 26-Jun-20 | Mr. Premchandra Vishwakarma (Corporate Trainer) |
| 119 | IT | Webinar on Digital Signatures | 26-Jun-20 | Mr. Michael Dewey Research Manager, iText |
| 120 | IT | Webinar on Core Java | 27-Jun-20 | Mr. Sachin Wandre Technology Analyst, Infosys Private Ltd. |
| 121 | IT | Hands on Workshop on Python programming and its Libraries | 27-Jun-20 | Mr. Saurabh Karmarkar Software Engineer and Web Developer Synerzip Company, Pune |
| 122 | IT | Webinar on Machine Learning and its Industrial Evolution | 27-Jun-20 | Mr. Ravikiran Rajbhure Director, DPARK Software Solutions and Consultancy |
| 123 | IT | Basics of IoT and Its Applications | 28-Jun-20 | Dr. Divya Chirayil Ms. Rupali Sathe |
| 124 | IT | Webinar on Career in IT & Lockdown Effects | 29-Jun-20 | Mr. Sagar Mahajan CEO, TechFryDay, Panvel |
| 125 | IT | SE, TE, BE Orientation program | 29-Jun-20 | All IT Faculty members |

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| 126 | IT | Webinar on How to write effective Research Paper | 30-Jun-20 | Dr. Saurabh Mehta, Chief Academic Officer, VIT, Professor, Department of Electronics and Telecommunication |
| 127 | IT | Mental Health and Wellness | 03-Jul-20 | Ms. Divya Nanda Founder, Sailing Words, Mental Health Advocate and Counsellor |
| 128 | MECH | Seminar on Heating, ventilation and refrigeration for faculty | 04-Apr-20 | Mr. Manish, Director valor systems, Thane Mumbai |
| 129 | MECH | Expert lecture on Application areas of Mechanical engineering for TE and BE students. | 22-Apr-20 | In house faculty |
| 130 | MECH | webinar on 3 D cast | 24-Apr-20 | Mr. Pranjal Waikar, Design tech systems. Pune |
| 131 | MECH | Seminar on Applications of Mechanical Vibration | 22-Apr-20 | Mr. S N Kadam |
| 132 | MECH | Expert lecture on Basics of Operational research | 22-Apr-20 | Mr. TRB Sanjai Kumar |
| 133 | MECH | Seminar on Applications of Automobile Engineering | 24-Apr-20 | Mr. Hemant patil |
| 134 | MECH | Expert Lecture Machine tool design | 27-Apr-20 | Mr. George Joseph |
| 135 | MECH | Expert lecture on how to implement PBL | 20-Apr-20 | Dr. KK Sundaram, Dr. G. V. Patil |

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| 136 | MECH | Expert lecture on Outcome based Education: Attainment of COs and POs, | 25-Apr-20 | Dr. G. V. Patil |
| 137 | MECH | Seminar on COVID 19 challenge and Solution | 28-Apr-20 | Dr. Kalyana Sundaram |
| 138 | MECH | 5 Day online FDP on Python programming and its interdisciplinary applications | 8-12 Jun 20 | Mr. Swapnil Jawahire, Mr. Vivekkumar, Mr. S.N.Kadam, Mr. Polawar |
| 139 | MECH | Basics of Mechanical Engineering Quiz for students | 07-May-20 | Dr. Gajendra Patil, Mr. Pravin Dhalke |
| 140 | MECH | Faculty Seminar Series | 25-30 May 20 | Mechanical Faculty |
| 141 | MECH | Seminar on "Choosing career Options" | 17-Jun-20 | Dr. Kalyana Sundaram |
| 142 | MECH | Importance of Medical Insurance during Pandemic times | 18-Jun-20 | Mrs. Hemalini Mohite (Sr. Manager - Business Development Manager, Religare Health Insurance Company Ltd.,) |
| 143 | MECH | Accessing Stock Market through Mutual Funds | 19-Jun-20 | "Mr. Rahul (Aditya Birla Mutual Fund ltds.)" |
| 144 | MECH | Webinar on Mission GATE 2021-22 | 20-Jun-20 | Mr.Rohan Malkar |
| 145 | MECH | Meditation session | 21-23 Jun 2020 | Dr. Nivedita, Dr. G V Patil |
| 146 | MECH | Scheduling Activities of ISHRAE | 23-Jun-20 | Dr. G V Patil |

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| 147 | MECH | Role of Prayer in Mediation | 24-Jun-20 | Mr. Amit Sing, Gulf oil Marine ltd for middle east and south asia market |
| 148 | MECH | Approach towards service and entrepreneurship in the view of COVID-19 | 24-Jun-20 | Mr. Sachin Kulkarni |
| 149 | MECH | An overview on SIEMENS NX CAD-CAM | 27-Jun-20 | Mr. Rahul Ramaswamy |
| 150 | MECH | Understand different personalities at organization | 30-Jun-20 | Prabhu Ganacharya |
| 151 | MECH | webinar on overseas education | 01-Jul-20 | Aniket Jadhav, Deepak Padmanabhan & Suraj panicker |
| 152 | ASH | Intensive Study Workshop and Problem solving Session | 13-Apr-20 | All FE faculty members |
| 153 | ASH | PCB design workshop | 26-Apr-20 | Mr. Pratik Mhatre and Jayesh Rane from EXTC Dept. and Dr. M. Vashistha from ASH |
| 154 | ASH | PCE Quiz For Students | 07-May-20 | Suma L, Poonam P, and Vikram P |
| 155 | ASH | Faculty Seminar Series | 15-30 Jun 20 | FE faculty |
| 156 | ASH | Online Quiz on "COVID-19 QUIZ" | 25-30 Jun 20 | Ms. Sunita Khansole |
| 157 | ASH | Online Quiz on "International Plastic Bag Free Day" | 3 - 7 Jul 20 | Ms. Sunita Khansole |

6 Student Activities

6.1 Students Council

| Sr. No | Name | Role |
|--------|---|----------------------------|
| 1 | Mr. Kartik Nagrajan, Civil Engineering | Faculty Coordinator |
| 2 | Mr. Siddhesh Rane, Mechanical Engineering | President |
| 3 | Mr. Pranav Kumbhar, Electrical Engineering | Secretary |
| 4 | Ms. Sarika Jadwal, Information Technology | Lady Representative |
| 5 | Mr. Ninad Mhatre, Civil Engineering | Reservation Representative |
| 6 | Ms. Astha Pandey, Electronics and Telecommunication Engineering | Cultural Coordinator |
| 7 | Mr. Kamalkishor Joshi, Electrical Engineering | Sports Coordinator |
| 8 | Mr. Srivastsa Kulkarni, Computer Engineering | Project Coordinator |

6.2 Co-curricular Activities

6.2.1 Robogria- 2019-20

“No stone left unturned. No child left untaught.” – Edu Nation Dr. K. M. Vasudevan Pillai The Founder and Chairman of Pillai HOC College of Engineering and Technology Dr. K.M Vasudevan Pillai Book Edu Nation quote “I want to see all the children of India educated and not only educated in the literate sense, but also possessing the skills that will later help them gain fruitful employment that will not only change their economic condition but will in a true sense help eradicate the problem of poverty, unemployment and further will contribute to our Nations growth”. To fulfil the wonderful thought provoking above said quote , With our Honourable Chairman continuous leadership, support, monitoring, and able guidance Pillai HOC College of Engineering and Technology is committed to give a great opportunity to the school students by providing free Robotics Workshop named “ROBOGRIA” to fulfil the above said quote. This novel initiative targeting maximum benefits to the enthusiasts attending the workshop. The workshop is designed to help students develop their knowledge and skills, and provide real time industry exposure dedicatedly delivered by experienced teachers and talented students of our Institution. Also we provide the opportunity to work the school students in our Re-

search lab under the valuable guidance of Ms. Munawira Kotyad Pillai to motivate them to start their research carriers in robotics.

Key Benefits

- Hands-on training on specific core areas of the robotics.
- Real-time implementations through practical sessions.
- Multipurpose project based trainer kits.
- Well versed materials like installation guides, circuit diagrams, study material and PPT's
- Experienced and dedicated teachers professionals.
- Certificate for the Participants.



6.2.2 Explore and Discover Day

All the departments celebrated Explore and Discover Day on 14th September, 2019 on occasion of Engineers day. In this event students exhibited their projects and innovation done in other engineering fields. One of the objective behind this event was to motivate students for interdisciplinary project.

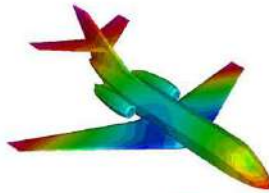


EXPLORE & DISCOVER DAY

14 September 2019

RESEARCH LAB B13

1. 3D Printer- Ultimaker 2exd
2. GCC Laser cutter
3. Virtual Reality Oculus
4. Component library
5. Microcontroller-Arduino,
6. Raspberry Pi



CAD CAM LAB D312

Softwares

- 1.AutoCAD
- 2.Solidworks
- 3.Ansys
- 4.LabView

**Pillai HOC College of Engineering and Technology, Rasayani, via
Panvel, Taluka-Khalapur, District-Raigad, 410207, India.**

RAC LAB B06

Refrigeration Test Rig
Refrigerating Equipments



MACHINE SHOP B01

Shaping tool, Lathe machine
Drilling machine, Hack saw
cutter and many more

AUTOMOTIVE SYSTEMS - Ground Floor, Poly Wing

1. Complete Tool box
2. Gear box
3. Batteries
4. Multifuel engines



STRENGTH OF MATERIAL LAB -Ground Floor, Poly Wing

1. Universal Testing Machine
2. Impact testing
3. Hardness testing

IC Engine LAB- B03

1. Diesel Engine
2. Petrol Engine
3. Gas Analyzer



Computer Graphics - B 404

Programming Hub, C, C++, Java
Programming

VEHICLE MAINTENANCE- Ground Floor, Poly Wing

1. Wheel alignment set up
2. Wheel balancing set up
3. Tyre changer set up

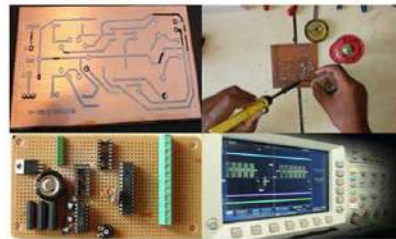


HEAT TRANSFER - B02

1. Conduction, convection and radiation set up
2. Heat exchangers

ADVANCED COMMUNICATION LAB - C 101

1. Scalar Network Analyzer,
2. Vector Network Analyzer,
3. Spectrum Analyzer, ,
4. Fibre Optic Communication Trainer
5. Kit, Antenna Trainer Kit,
6. Klystron Based Microwave Trainer,



PROJECT LAB - C 105

1. PCB making solutions and equipments
2. Photo Resist DIP Coating Machine
3. Single Sided UV Exposure Machine



SIGNAL PROCESSING LAB - B 109

Satellite Communication Trainer

COMMUNICATION LAB - C 104

100 MHz 1GS/s Colour Digital Storage Oscilloscope with FFT& Colour TV Trainer , DTH, DVD, LED TV



OPEN SOURCE - D 410

1. Kali Linux
2. Hacking Tools
3. Cryptography



NETWORKING LAB - D 413

1. Android Development Tools
2. Database Management(SQL)



PROGRAMMING LAB - D 414

1. IoT Lab Components,
2. C, C++, Java Programming

Internet Technology- B 407

Cisco Packet tracer, XAMPP server, Programming Hub



Computer Centre - B 405

Programming Hub, C, C++, Java Programming



SECURITY LAB - C 405

1. Security tools - Wireshark, Nmap
2. Programming Hub
3. Operating system Kali Linux

ELECTRICAL MACHINES - B 504/506

1. DC generator and motor set
2. single phase and three phase transformer
3. LVDT
4. Alternator set
5. synchronous motor
6. DC drive and AC drive



PROTECTION AND CONTROL LAB - B 606

1. Open loop and closed loop kit
2. AC and DC position control kit
3. Fuse and MCB testing kit
4. overcurrent relay kit
5. Triac and diac circuit,



BMCT LAB - B 10

1. Compressive Testing Machine,
2. Table vibrator, Slump Cone Test

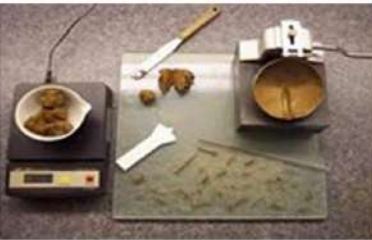
ISRO OUTREACH CENTRE - D 512

ISRO outreach centre, Journals of ISRS, Models of satellites



MODEL ROOM - D 511

Models of different types of frames, structural models, water logging solution models etc.



GEOTECHNICAL ENGG LAB - B 11

1. Shear capacity of soil,
2. Torsion testing facility,
3. sand replacement, proctor etc.

ELECTRICAL WORKSHOP - B 601

- Panel of Stair case winding
- Godown wiring / House wiring
- Different lighting accessories
- Protection devices
- Best BE project



Glimpses of Event



6.2.3 ISRO Pillai's (PHCET) Outreach Network Institute



6.2.4 Project Based Learning

Automobile Engineering

ODD Semester

| Sr.No | Class | Project Topic |
|-------|-------|---|
| 1 | SE | Remote controlled mini fork lift |
| 2 | SE | Detection of distance by using sensors in toy car |
| 3 | SE | Tandem drive system for belt convener |

| | | |
|---|----|---|
| 4 | TE | working model of gear shifting mechanism |
| 5 | TE | Detection of distance by using sensors in toy car / Battery operated car with all wheel drive |
| 6 | TE | Remote controlled mini fork lift |
| 7 | TE | Gear Shifting Mechanism Of Gear Box |
| 8 | TE | Air quality check |
| 9 | TE | Prototype of wankel engine |

Even Semester

| Sr.No | Class | Project Topic |
|-------|-------|---|
| 1 | SE | Remote controlled solar car model |
| 2 | SE | Hydraulic JCB |
| 3 | SE | Prototype assembly using any mechanism |
| 4 | SE | Joystick Controlled Steering Mechanism Vehicle |
| 5 | TE | Detection of distance by using sensors in toy car / Battery operated car with all wheel drive |
| 6 | TE | Remote controlled mini fork lift |
| 7 | TE | Gear Shifting Mechanism Of Gear Box |
| 8 | TE | Air quality check |
| 9 | TE | Prototype of wankel engine |

Civil Engineering

ODD Semester

| Sr.No | Class | Project Topic |
|-------|-------|-----------------------|
| 1 | SE | Hydraulic scaffolding |
| 2 | SE | Water harvesting |

| | | |
|----|----|---|
| 3 | SE | Self cleaning street |
| 4 | SE | Digital Elevation Model |
| 5 | SE | LULC Maps |
| 6 | SE | Pendulum Technique |
| 7 | SE | Application of Hydrostatic forces on various Surfaces |
| 8 | SE | Testing of Different types of wiers/notches |
| 9 | SE | Contour map model |
| 10 | SE | Theory of plate techniques |
| 11 | TE | Application of Jet Propulsion of ships |
| 12 | TE | Fiber Reinforced Concrete (Casting, Testing) |
| 13 | TE | Comparative study of environmental parameters of water sample JNPT port |
| 14 | TE | Waste Material based Concrete (Organic and Inorganic) |
| 15 | TE | Signal System |
| 16 | TE | Light Weight Concrete (Casting,Testing) |
| 17 | TE | Comparative study of environmental parameters of bed sample JNPT port |
| 18 | TE | Design of Distribution system by software |
| 19 | TE | Stabalized mud block |
| 20 | TE | Cool Roof Technology |
| 21 | TE | Different methods of Lateral Load resistance for high rise buildings |

Even Semester

| Sr.No | Class | Project Topic |
|-------|-------|---------------|
|-------|-------|---------------|

| | | |
|----|----|---|
| 1 | SE | Water Harvesting Stage II |
| 2 | SE | Types of column footing |
| 3 | SE | Factors affecting Viscosity |
| 4 | SE | Setting of curves by offset from chords produced method |
| 5 | SE | Suspension Cable |
| 6 | SE | Design of Three Hinge Arch |
| 7 | SE | Model for water supply and sanitary system for a given building |
| 8 | SE | Model for electrical system for a given building |
| 9 | SE | Model of Hospital Building |
| 10 | SE | Model of School Building |
| 11 | SE | Bridge design problem: Design cost efficient bridge to over come all type of disasters. |
| 12 | SE | Design of truss: Devlope some design which is most efficient in a way to carry high loads |
| 13 | SE | Irrigation Culvert Model |
| 14 | TE | Ferrocement structural applications |
| 15 | TE | Pillai HOC Canteen Waste Management |
| 16 | TE | Sustainable Energy Technologies in Engineering |
| 17 | TE | Removal of colour using waste materials |
| 18 | TE | sewage Farming |
| 19 | TE | Wetlands for treatment of canteen waste water |
| 20 | TE | Prefabricated housing systems |
| 21 | TE | techniques and equipment involved in the construction of Metro, mono |

| | | |
|----|----|--|
| 22 | TE | Ware house design (Model with design) |
| 23 | TE | Design of metro/Railway/Bus station (Model with design) |
| 24 | TE | Watershed Management of Rural Water Resources |
| 25 | TE | Analysis of flood points and its remedial for Kurla region |
| 26 | TE | Floating House to withstand floods |
| 27 | TE | Self repairing roads |
| 28 | TE | Smoke Absorber Machine |
| 29 | TE | model of points and crossings, Signalling system |
| 30 | TE | Rain Water Harvesting |
| 31 | TE | Rainfall Data Collection Techniques |
| 32 | TE | Advanced Irrigation Techniques |
| 33 | TE | Design of Formwork |
| 34 | TE | Tunnel Boring Machine(working and application) |

Computer Engineering
ODD Semester

| Sr.No | Class | Project Topic |
|-------|-------|---|
| 1 | SE | IOT based Smart Agriculture Monitoring System Project |
| 2 | SE | IOT Electronic Door Opener |
| 3 | SE | Security Alarm using Laser |
| 4 | SE | Develop a game using C/C++/JAVA |
| 5 | SE | Automated Exam Seating arrangement software |
| 6 | SE | Develop a Website |
| 7 | SE | student attendance system using JAVA |

| | | |
|---|----|---|
| 1 | TE | Design and Implementation of a Wi-Fi Based Home Automation System |
| 2 | TE | Raspberry Pi Air and Noise Pollution Monitoring System Over IOT |
| 3 | TE | AI therapist |
| 4 | TE | Make a flying Quadcopter drone |
| 5 | TE | Develop IOT based automatic vehical accident detection system |
| 6 | TE | Smart stick for blind people |
| 7 | TE | Iot based patient monitoring system |
| 8 | TE | Smart dustbin |

Even Semester

| Sr.No | Project Topic |
|-------|---|
| 1 | Virtual Dressing Room |
| 2 | IOT Based Garbage Monitoring System |
| 3 | Patient Health Monitoring System Using IOT |
| 4 | Handwritten Digit Recognition Using Artificial Neural Network |
| 5 | Android based Crime Reporter App |
| 6 | Smart Wheelchair |
| 7 | Text Summarization |
| 8 | Nirbhaya: An Android Application for Women Safety |
| 9 | Water Cleaning Boat |
| 10 | Smart Shopping Cart |
| 11 | Automated Payroll with GPS Tracking And Image Capture |

| | |
|----|--|
| 12 | City-Fair Android Application |
| 13 | Blood Donation System |
| 14 | Driver Drowsiness Detection |
| 15 | Android Based Mobile Application |
| 16 | Human Activity Recognition Using Smart Phones |
| 17 | Agile Ambulance |
| 18 | IOT Based Smart Mirror |
| 19 | Stock Prediction using sentiment Analysis |
| 20 | Image Captioning Deep Learning Model |
| 21 | Voice-Based E-Mail for Blind |
| 22 | Raspberry Based Reader for Blind People |
| 23 | Python App That Tracks Amazon Prices |
| 24 | Emotion Recognition System |
| 25 | Optical Character Recognition |
| 26 | IOT based Gas Detection Technique |
| 27 | Iot Ambulance With Automatic Traffic Light Control |
| 28 | Investigation and Development of the Intelligent Voice Assistant for the Internet of Things Using Machine Learning |
| 29 | Third Eye for the Blind |

Electrical Engineering

ODD Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|--|
| 1 | SE | Setup a model of wind power generation |
| 2 | SE | Prototype of a Hydro power plant |

| | | |
|----|----|--|
| 3 | SE | Clap based Fan Switching System |
| 4 | SE | PIN diode based fire sensor |
| 5 | SE | Plant Moisture Monitoring System |
| 6 | SE | Overvoltage And Undervoltage Protection System |
| 7 | SE | Cell phone detector circuit |
| 8 | SE | Metal Detector Circuit |
| 9 | SE | Electric circuit for security of door |
| 10 | SE | Electronics application in field of home appliance. |
| 11 | TE | Automatic Water Tank Cleaning Machine |
| 12 | TE | Automatic Room Light Controller using IR Sensors |
| 13 | TE | DC Motor control using DTMF |
| 14 | TE | Electric Guitar PreAmplifier |
| 15 | TE | Energy flow detector |
| 16 | TE | Battery charging circuit |
| 17 | TE | Fault detection in three phase system using ardino |
| 18 | TE | Advanced methods for transformer protection |
| 19 | TE | Beach Cleaning machine |
| 20 | TE | Speed measurement of Electric motor using Hall Effect sensor |
| 21 | TE | Zero contact tachometer |
| 22 | TE | Automatic Change over switch |

Even Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|-----------------------------------|
| 1 | SE | From trash to Gas: Biomass Energy |

| | | |
|----|----|--|
| 2 | SE | Using hydropower to lift the load |
| 3 | SE | Remote controlled objects for home maintenance |
| 4 | SE | Weather monitoring sensors and actuation of electrical appliance |
| 5 | SE | Solar Car |
| 6 | SE | Automatic rain sensing wiper |
| 7 | SE | Adder and Subtractor using IC |
| 8 | SE | Smart traffic lighting system |
| 9 | SE | Electromagnetic Field Wave using IE3D Software |
| 10 | SE | Measurement of solar radiation by silicon solar cell |
| 11 | TE | Energy Generation Using Piezoelectric sensor |
| 12 | TE | Fingerprint Door Lock Using Arduino |
| 13 | TE | Smart Dustbin |
| 14 | TE | IRSensorBasedDoorBell |
| 15 | TE | fire detection and Alarm |
| 16 | TE | Automatic Day Night switch |
| 17 | TE | Electronic Mosquito Repellent Circuit Using 555 timer IC |
| 18 | TE | Micro grid Model with Overhead Line Fault Detector System |
| 19 | TE | Free Energy Generator Magnet Coil |
| 20 | TE | Smart traffic lighting system |
| 21 | TE | Home Automation |
| 22 | TE | CLAP Circuit |

Electronics and Telecommunication Engineering
ODD Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|--|
| 1 | SE | Clap operated remote control for any Home Automation appliance. |
| 2 | SE | Automatic Traffic Light Controller with different time delay |
| 3 | SE | Water level indicator for overhead water tank application. |
| 4 | SE | Power generation using piezoelectric sensor |
| 5 | SE | Power bank for mobile phones |
| 6 | SE | Wireless AC Power Detector |
| 7 | SE | Efficient Power Manager |
| 8 | SE | Short Circuit Indicator |
| 9 | TE | Embedded system for Hazardous Gas Detection and Alerting using microcontroller |
| 10 | TE | Object detector & counter using RF/Ultrasonic sensor |
| 11 | TE | Image encryption using AES/ triple DES algorithm |
| 12 | TE | Implementing triple DES with OTP |
| 13 | TE | Mobile App Development |
| 14 | TE | Home security and automation using GSM. |
| 15 | TE | ASK/ FSK/ QAM / QPSK Modulation using Op Amp/IC 555 |

Even Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|-------------------------------------|
| 1 | SE | Electronic Piano using IC 555 timer |
| 2 | SE | Layser Security Alarm System |
| 3 | TE | Line Follower |

Information Technology**ODD Semester**

| Sr.No | Class | Project Topic |
|--------------|--------------|---|
| 1 | SE | Implement K-map technique of problem solving |
| 2 | SE | Implement the Quine–McCluskey algorithm |
| 3 | SE | Arduino based digital thermometer |
| 4 | SE | Fire detection alarm system using arduino |
| 5 | SE | Fee report-Student management system using java |
| 6 | SE | Student Record keeping System |
| 7 | SE | Implement any mathematical equation in java or C language.(Eg- Laplace transform) |
| 8 | SE | Design games in C or C++ |
| 9 | TE | Hand Gesture Controlled Robot using Arduino |
| 10 | TE | Smart Pill Box |
| 11 | TE | Smart Mirror |
| 12 | TE | Secret Knock Dectecting Door Lock |
| 13 | TE | Face Recognition Attendance System |
| 14 | TE | Elegent Smart Parking System using IoT |
| 15 | TE | Water Leakage Detection System |
| 16 | TE | Automatic Vehicle Accident Preventionn and Rescue System |
| 17 | TE | Intrusion Detection and Recovery System for Drone |
| 18 | TE | Garbage Monitoring System |
| 19 | TE | Smart Bus Monitoring System |
| 20 | TE | Smart Coal Mining |

| | | |
|----|----|--------------------------------------|
| 21 | TE | Home Automation using Alexa |
| 22 | TE | Smart Fridge with Grocery Management |
| 23 | TE | Smart Baggage Tracking System |
| 24 | TE | Smart Water Tap |
| 25 | TE | Air Pollution Monitoring System |
| 26 | TE | Floor Cleaning Robot |
| 27 | TE | Green House Monitoring System |
| 28 | TE | Web based Notice Board System |
| 29 | TE | Vehicle Tracking System |
| 30 | TE | Smart Water Bottle |
| 31 | TE | Visitor Monitoring System |

Even Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|---|
| 1 | SE | Design games using Python- Nought and Crosses |
| 2 | SE | Sun Tracking Using Solar Panel |
| 3 | SE | Design games using Python |
| 4 | SE | Multi Threaded Chat Application using java |
| 5 | SE | Video Chat Application -Python |
| 6 | SE | Chat Application Using Python |
| 7 | SE | Solar Tracker Using Arduino |
| 8 | SE | Multi Threaded Chat Application using python |
| 9 | SE | Sun Tracking Using Solar Panel using Arduino |
| 10 | SE | Gas Leakage Detector using Arduino |

| | | |
|----|----|---|
| 11 | SE | Game using Python |
| 12 | SE | Design games using Python-Snake game |
| 13 | SE | Gas Leakage Detector using Arduino |
| 14 | SE | Multi Threaded Chat Application using python |
| 15 | SE | Gas Leakage Detector using Arduino |
| 16 | SE | Fee report-Student management system using java |
| 17 | SE | Multi Threaded Chat Application using python |
| 18 | SE | Design games using Python-Tic Tac Toe |
| 19 | SE | Game using Python |
| 20 | SE | Game using Python-Space Invaders |
| 21 | SE | Video Chat Application -Pychat |
| 22 | SE | Courier Management System in Python |
| 23 | SE | Detailed Management System |
| 24 | TE | Handwritten Digit Identification |
| 25 | TE | Movies Recommendation Systems |
| 26 | TE | Sentiment Analysis Using Twitter Dataset |
| 27 | TE | Big Mart Sales Prediction |
| 28 | TE | Secure routing protocol from DOS attack in mobile network |
| 29 | TE | Network intrusion detection based on pattern matching |
| 30 | TE | Crime rate prediction using k-means |
| 31 | TE | Smart home using big data technique |
| 32 | TE | Wireless Electronic Display Board using GSM Technology: |

| | | |
|----|----|--|
| 33 | TE | IOT Theft Detection Using Raspberry Pi |
| 34 | TE | Intruder Tracking Using Wireless Sensor Networks |

Mechanical Engineering

ODD Semester

| Sr.No | Class | Project Topic |
|--------------|--------------|-----------------------|
| 1 | S.E | Beam Design Challenge |
| 2 | T.E | Toy Engineering |

Even Semester Applied Science and Humanities

| Sr.No | Class | Project Topic |
|--------------|--------------|-------------------------------|
| 1 | S.E | Flying Bird Mechanism |
| 2 | T.E | Flat Plate Solar Water Heater |

Mini Project Topics Topics

| Sr.No | Class | Project Topic |
|--------------|--------------|---------------------------------|
| 1 | FE | Vacuum Cleaner |
| 2 | FE | A Tesla Coil |
| 3 | FE | Lifi-Light Fidelity |
| 4 | FE | A sterling Engine |
| 5 | FE | Remote Control Motor Car |
| 6 | FE | Raft Powered by surface tension |
| 7 | FE | Hydraulic Breaking System |
| 8 | FE | Mutual Induction |
| 9 | FE | Laser security Alarm |
| 10 | FE | DC Motor |
| 11 | FE | Water Level Indicator Alarm |

| | | |
|----|----|--|
| 12 | FE | Lifi-Light Fidelity |
| 13 | FE | Mobile signal Jammer |
| 14 | FE | Electric motor |
| 15 | FE | Energy Harvesting using Piezoelectric Material |
| 16 | FE | Monostable multivibrator using 555 timer |
| 17 | FE | Electromagnetic crane |
| 18 | FE | Air purifier |
| 19 | FE | Mini Inverter |
| 20 | FE | Wireless Power Transmission through tesla coil |
| 21 | FE | Automatic night lamp using transistor |
| 22 | FE | Laser Security system |
| 23 | FE | Blue tooth speakers |
| 24 | FE | Hydraulics |
| 25 | FE | Portable mobile charger |
| 26 | FE | The third eye for the blind |
| 27 | FE | Plasma Ball and Fluorescent lamp experiment |
| 28 | FE | Automatic water indicator |
| 29 | FE | Electro-magnetic train |
| 30 | FE | Voice controlled robotic car |
| 31 | FE | Rain water sensor |
| 32 | FE | Line following Robot |
| 33 | FE | Metal Detector |
| 34 | FE | To generate electricity with the help of magnetic energy |
| 35 | FE | Li-Fi technology |

| | | |
|----|----|-----------------------|
| 36 | FE | Nanotechnology |
| 37 | FE | Robotic Hydraulic Arm |
| 38 | FE | Hydraulic Bridge |

Glimpses of PBL Activity



Industrial Visits

| Sr. No | Dept. | Title of the Industrial Visit | Date | Faculty Coordinator |
|--------|-------|---|--------------|---------------------|
| 1 | AUTO | Centre for Invention, Innovation & Incubation | 30-Aug-19 | AESA |
| 2 | AUTO | ARAI | 10-Dec-19 | AESA |
| 3 | AUTO | Auto Expo – The Motor Show 2020 | 7- 12 Feb 20 | Mr. Vaibhav Bhagat |

| | | | | |
|----|-------|---|---------------|--|
| 4 | CIVIL | Site Visit to Indian Institute of Geomagnetism (IIG), Panvel, Navi Mumbai | 27-Sep-19 | Dr. Amit Dasgupta |
| 5 | CIVIL | Site Visit to Water Treatment Plant, Bhokarpada | 05-Oct-19 | Mr. Harshal Pathak |
| 6 | CIVIL | Site Visit to Construction of Gavanphata Interchange package 2 Precast Yard, Panvel-Uran Road, Gavanphata, Navi Mumbai. | 07-Oct-19 | Dr. Shilpa Kewate |
| 7 | CIVIL | Site Visit to MTHL package 3 Precast Yard, Ulwe, Navi Mumbai. | 07-Oct-19 | Dr. Shilpa Kewate |
| 8 | CIVIL | Traffic Volume survey | 14- 15 Oct 19 | Ms. Sonali Baviskar |
| 9 | CIVIL | Industrial Visit for BE students | 13-Feb-20 | Dr. Shilpa Kewate |
| 10 | ELEC | Industrial Visit to Bhira Hydro Electric Power Plant | 28-Aug-19 | Mr. R. D. More and Ms. Supriya Shigwan |
| 11 | ELEC | Industrial Visit to HVDC Terminal Station, MSETCL, Padghe | 29-Jul-19 | Ms. Sangeetha R., Mr. R. D. More and Ms. Ronita P. |
| 12 | ELEC | Industrial Visit to KV Substation, Apta | 07-Feb-20 | Ms. Pranita Chavan, Mr. Aamir Shaikh |
| 13 | ELEC | Industrial Visit to Airport Utility Building, Andheri | 29-Mar-20 | Dr. Panimaya Selvi |
| 14 | ELEC | Industrial visit to monorail | 08-Feb-20 | Ms. Sangeetha R., Mr. R. D. More |

| | | | | |
|----|------|---|-----------|---|
| 15 | MECH | Industrial Visit to Adani Thermal Power Plant, Dahanu | 01-Oct-19 | Mr. Pravin Dahalke, Mr. Sunil Rajput, Mr. Aditya Shinde |
| 16 | MECH | Industrial Visit to Government Milk processing Plant, Khopoli | 28-Aug-19 | Mr. Pravin Dahalke, Mr. Sunil Rajput, Mr. Kalyan S |
| 17 | ASH | Industrial Visit | 05-Oct-19 | Mrs. Sunita Khansole |

Glimpses of Industry Visits



6.2.5 Convocation Ceremony

The Degree Distribution Ceremony for the academic year 2019-20 was conducted on Saturday, 15th February, 2020 at PHCET. Our chief guest Mr. Ashok Khade, MD of DAS Offshore Engineering Pvt. Ltd. along with other dignitaries handed the degree certificate to students. Students from all departments attended ceremony. All faculty members interacted with students. Students shared their work experiences and future plans with faculty members.



6.3 Extra Curricular Activities

6.3.1 Euforia 2020

Euforia was initiated as inter-collegiate carnival by the students of Pillai HOCL Educational Campus “It’s All About Celebration, Happiness and Knowledge”. Euforia Converges on bringing the students together and showcase enthusiasm and integrity and helping students to embrace creativity, talent, and excellence and also provides a stage for students to endorse their passion out in front. The event left an impact on everyone’s hearts and uplifted the ambiance of the campus to a new level altogether. The seed was sown by Dr.K. M. Vasudevan Pillai, chairman, and CEO of MES , ‘Euforia’ has grown into a huge sensation since the day of its commencement receiving overwhelming response and popularity. Euforia has been getting bigger, better and greater every year and setting high standards for the years to come. This year Tropical Carnival was the theme of the Euforia 2020. Tropical Carnival is a symbol of joy, festival. The theme has a power packed action and drama. Many stage and non-stage events were planned for everyone to enjoy.





6.3.2 Shivaji Maharaj Jayanti

On the occasion of Birth of Chatrapati Shivji jayanti on 20th Febuary 2020.Students dance and art creativity. On the event day, the college event area and ribbons, rangolis were made.



6.3.3 NSS Events

1. Nutrition Camp

Continuing with our mission of spreading love, NSS PHCET visited Chinchmol, Borgaon, Karjat on

the 21st of September 2019 with 25 NSS volunteers and 3 faculty co-ordinators. The volunteers spent quality time with the people of Chinchmal place within the home which provides education, health-care, nutrition, clothing, and most importantly love and support to the homeless people. It was an enriching experience for the entire team. Essentials like toiletries like sanitary napkins were distributed among the girls and also distributed cloth bags to the people of the village.

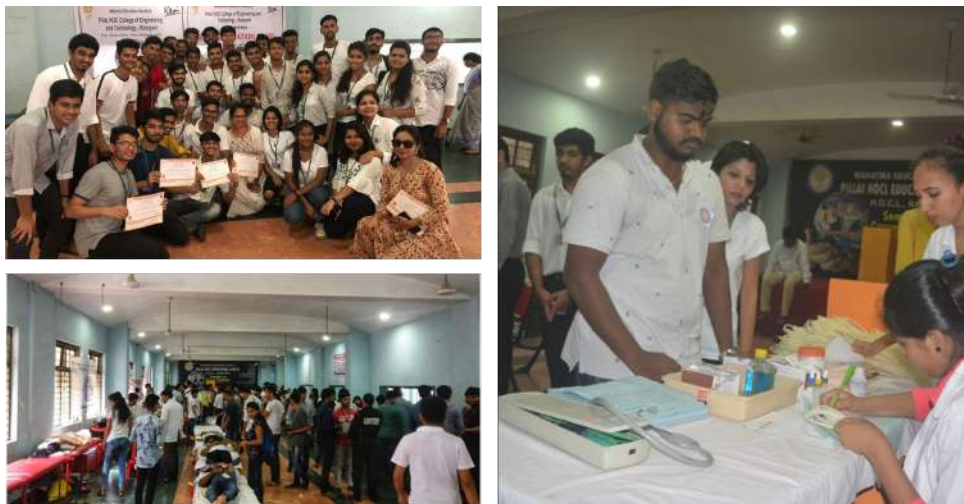


The volunteers indulged in one to one interaction with the girls, getting an insight into their daily lives and their experiences there, trying to relax them a bit and listening to the struggles they had endured. Volunteers had a gala time playing games with them and got an opportunity to relive their own childhood. Finally, some toffees were distributed among the girls as tokens of our love. The smiles on their vibrant faces were our reward for the day. The importance of the nutrition were told to the people of chinchmal place by NSS volunteers along with Ms. Rekha Dhawan. Like Good nutrition is an important part of leading a healthy lifestyle.

2.Blood Donation Camp

Donating blood is a vital way to help save lives. Along with helping save lives, there are a number of reasons why donating blood is important. A single donation can save three lives. Blood is the most precious gift that anyone can give to another person. Therefore to create awareness, NSS unit , The

Pillai HOC College of Engineering and Technology in association with The Rotract Club of Patalganga conducted a Blood Donation Camp in the premises on 19th September 2019.



There was an overwhelming response from donors, around 350+ Blood Donors donated 350ml-450ml of the blood. A certificate of appreciation and refreshment was given to each donor as a token of gratitude. The slogan for the Blood Donation Camp was “A single pint can save three lives. A single gesture can create a million smiles”.

48 NSS volunteers volunteered for the event and also donated the blood. They also encouraged students and faculty members to donate blood. Two blood banks were present for the event.

3. Rally On 2nd October

Cleanliness is next to Godliness. Swachh Bharat Abhiyan was launched by the Government of India to solve the problems of sanitation and waste management in India by ensuring hygiene across the country. The main purpose of this programme was to create awareness among the students regarding Cleanliness and its benefits. Therefore to create awareness, The Pillai HOC College of Engineering and Technology in association with The Rotract Club of Patalganga conducted a rally on Swachh Bharat on October 2nd, 2019. The cleanliness awareness campaign led by 20 NSS volunteers peaked with a rally around town. Holding banners and placards on the theme “Clean India, Happy and Healthy India”, the volunteers began the rally from Janta Vidyalaya School Mohopada, Gram Panchayat Wasambe (Mohopada) via the main road. The rally took nearly an hour. NSS Volunteers were heard shouting slogans in English, Hindi and Garo like, “no more plastic” and “Gandhi ji ka tha yahi irada, swachh ho desh hamara” and “Sabhi rogo ki bs ek dawai, ghar me rakho saaf – safai”. Onlookers in crowded areas along the route were taken surprise at the enthusiasm of the student community.



4. Rashtriya Ekta Diwas

NSS UNIT, PHCET, Rasayani celebrated Rashtriya Ekta Diwas on 31st October 2019 as per the instructions given by NSS UNIT, University of Mumbai. Rashtriya Ekta Diwas (National Unity Day) is celebrated as the Birth Anniversary of Sardar Vallabhbhai Patel. A pledge taking ceremony was organized to mark this occasion by NSS UNIT, PHCET. 25 NSS volunteers along with 100 plus students and faculty members took the oath on this occasion. NSS volunteers also organized drawing and painting competition for the students. 17 students along with 2 NSS volunteers participated in the competition. A team of experts evaluated the paintings and gave 4 prizes.



7 Training and Placement

Training and Placement Activities



8 Social Events

8.1 Community Service Day

One of our prime duties is to serve people and being responsible citizens, such an exceptional work was executed by the Mahatma Education Society's Pillai Group of Institutions at Pillai College, New Panvel on the 25 January, 2020. All the 50 institutions under M.E.S. such as Pillai HOC Engineer-

ing College, Chembur English High School and Junior College, Mahatma International School, etc. took charge of making the orphans', senior citizens' and many others' day memorable by celebrating 'COMMUNITY SERVICE DAY'



This day was solely dedicated to the kids from various schools, orphanages and senior citizens from old age homes. Students of Pillai college, volunteers and teachers gave their all to warm the cockles of everyone's heart. There was special conveyance provided to the respective NGO'S and associations. A variety of organizations such as Seva Daan, Bliss foundation, Vanvasi Kalyan ashram, Ashray homes for citizens, aroma kids garden, Jeevan jyoti charitable trust, etc. were present on this occasion and were wholeheartedly welcomed by all the teachers and volunteers. Different activities took place the whole day such as crafting, colouring, quiz competitions, drawing for kids, book donations and many other fun filled games for orphans. There were unique activities and entertaining games such as musical chair, singing, music and dance/drama events for our guests from old age homes. Their age was no barrier as they were all extremely energetic and full of life. Every participant was awarded with prizes and everyone held gifts as a token of memory. Kids and children were mettlesome and they vibrantly spent their day without any complaints. The community service day turned out to be very satisfying and emotional as everyone thoroughly enjoyed the entire day by truly being a part of loving, sharing and spreading joy. A mark of infinite bliss and satisfaction could be seen on their faces and the day ended by wishing everyone good health and care.

8.2 Uber Rang

“Uber RANG 2020” is celebrated on Saturday 25 January, 2020 at Dr. K. M. Vasudevan Pillai Campus, Panvel. The Community Service Day ended with the fundraiser talent of India. Uber Rang is an inter MES institution fundraiser talent competition to promote the activities associated with Community Service day conducted every year by the Pillai group of Institutions.



Every year, after the observance of Community Service Day in the morning, students from across the MES institutions work together to create a dazzling display of young talent. All the surplus generated at the UBER RANG festivities is used for the affiliated NGOs at the annual MES Community Service Day thus involving students towards helping the lesser fortunate section of the society and spreading the message of compassion and empathy.

8.3 Maharashtra Flood Relief

MES and the Pillai Group of Institutions stand with the people of Western Maharashtra in their time of need due to the catastrophic flood situation. PHCET therefore, request all the heads, teachers, staff and students to contribute to the Flood Relief Operations in any form possible that would be of immense help to the people of Maharashtra.


 Mahatma Education Society's
Pillai Group of Institutions


Pillai Group of Institutions is organizing a collection drive across all its campuses to help the people in Western Maharashtra to recover from the disastrous impact of the flood. The collection drive starts on 13th August 2019. We have listed a few items that would be of immense help to them.

STAND WITH WESTERN MAHARASHTRA



HOW CAN YOU HELP

Donate anything you can from the list mentioned below.

WHEN & WHERE

13th August - 17th August at
 Pillai College, New Panvel, Reception &
 Pillai HOC College, Rasayani Reception

ITEMS NEEDED

| | | |
|--------------------|--------------------------|------------------------|
| Pulses and Cereals | Blanket towel | Megadox 200 mg tablets |
| Rice & Oil | Empty puffs | ORS glucose sachets |
| Onion & Potatoes | Sugar platter | BTI powder |
| Mineral Water | Cups/Glasses/Spoon | BTI liquid |
| Good clothes | First aid box | Mediclore |
| Sanitary napkin | Diclozem tablets | Temiphos liquid |
| Biscuits | Paracetamol tablets | Cloriwat |
| Food Bags | Sandox CP 200 mg tablets | Doxmo 200mg tablets |

8.4 Installation of Biocrux Plastic Bottle Recycling Machine

We are proud to announce that Pillai HOC College of Engineering, Rasayani, along with Reliance India Ltd. is inaugurating *Plastic Bottle Recycling Machine* on 13th Aug, 2019 at 11.00 a.m. at *Canteen Area* Pillai HOCL Educational Campus, Rasayani.



This is a joint project with PHCET, Reliance and Biocrux Ltd. The launching and the inaugural ceremony of this noble initiative will be done by Mr. Bharat Mehta, Vice President Business Dev Reliance, along with our CEO Dr. K. M. Vasudevan Pillai Sir, Secretary Dr. Daphne Pillai Madam, Dy. COO Dr. Lata Menon, Mr. Rajesh Gera, Asst. Vice President Business Development Reliance, Mr. Rajiv Kumar, Gen Manager, Business Development, Reliance, Mr. Ajay Kumar, MD Biocrux, Dr. Madhumita Chatterjee, Principal PHCET, Dr. Biswajit Panda, PCE sharp at 11.00 a.m. at *Canteen Area* Pillai HOCL Educational Campus, Rasayani.

8.5 Social Activities During Covid -19

1. Grocery Distribution During COVID 19

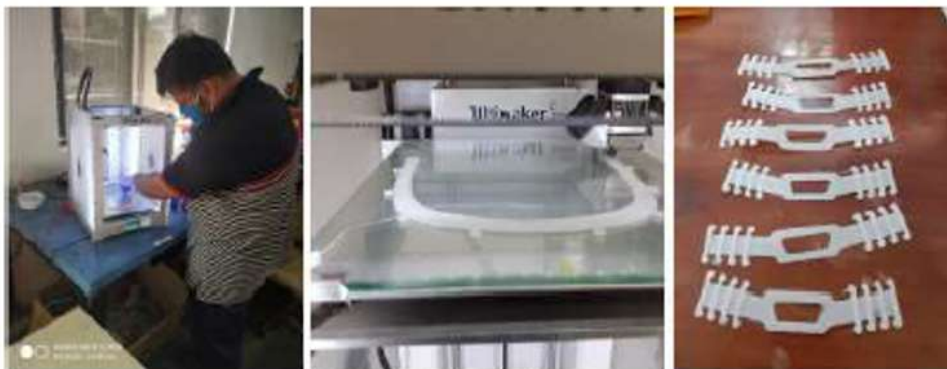
NSS Unit of Pillai HOC College of Engineering and Technology , Rasayani always works for the people in the neighbourhood community. It adopted the village Gulsunde, Panvel on Dec 10th 2019. In COVID 19 situation people staggered for food because of lockdown. Government took efforts and provided food to all the people but it was not enough. We decided to help in the adopted village and identified the needy people through Village representative Mr. Manoj Pawar , Grampanchayat Member , Gulsunde.



We appealed faculty members and students to donate voluntarily for this purpose . We collected 40,000 /- altogether from 50 faculty members and 6 students and brought grocery and distributed among needy people. The activity was coordinated by NSS coordinators Dr. Avinash gatade and Ms. Rekha Dhawan along with non teaching staff members Mr. Nitin Gopale and Mr. Mahendra Mali.

2. Protective Face Shields and Mask Strips

3D printing industry is helping to fight COVID-19 Worldwide. Companies like STRATASYS and HP are making best use of their resources to produce Face shields, masks and other medical/safety aids to help officials.3D print face shields can provide safety to our medical staff and Police officials from COVID-19. Pillai HOC College of Engineering and Technology has advanced manufacturing facilities in makers' studios like CO2 LASER Cutting, 3D printing which can be utilized for manufacturing Protective Face shields and Mask strips.





9 Memorandum of Understanding

| Sr. No | Name of the institution industry corporate house | Month Year of Signing MoU | Details |
|--------|--|---------------------------|--|
| 1 | Taloja Industries Association | 27-Jan-20 | Skill development programs, guest lectures, FDP, technical training and internship |
| 2 | Padeco India Pvt. Ltd | 2-Jan-20 | Promote and enhance the industry interaction of the institute in mutually beneficial area Construction Engineering |
| 3 | Tata Power Skill Development Institute, Shahad | 17-Oct-19 | Training on power system and Solar power installation with assistance in placement and internship in Tata Power |
| 4 | Chetan Construction, Pali, Raigad | September 2019 | Internship to students and organize placement drive |

| | | | |
|---|--|----------------|---|
| 5 | J. M. Mhatre Infra Private Ltd, Navi Mumbai | September 2019 | Offer industry projects for BE & ME students and internship to students with conduct placement drive |
| 6 | Reliance Industries Ltd/ Biocrux Ltd, Mumbai | July 2019 | Recognition for Institute for conducting R&D, Packaging and waste management like Automation, functionality and IOT |
| 7 | Siemens-SITRAIN, Mumbai | July 2019 | Professional training environment with standardized training equipment with certified trainers to make students compatible for the industry |
| 8 | Programming Hub | July 2019 | Students and faculties can learn 30+ programming languages with interactive lessons, programming code examples and assessments Teleman, Mumbai Jun 2019 Integrates Professional training |

10 Notable Achievements

10.1 Institutes's Achievements

1. NAAC "A" Accreditation

Pillai HOC College of Engineering and Technology has been accredited A grade by National Assessment and Accreditation Council (NAAC). The visit was conducted on 26 - 27 March 2019 by NAAC peer team experts.



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Pillai HOC College of Engineering and Technology
Rasayani, Tal. Khalapur, Dist. Raigad, affiliated to University of Mumbai,
Maharashtra as
Accredited
with CGPA of 3.03 on seven point scale
at A grade
valid up to March 27, 2024*

Date : March 28, 2019



S. C. Sen
Director



2. NBA Reaccreditation of Computer Engineering and Mechanical Engineering for three years

Department of Computer Engineering and Mechanical Engineering are reaccreditation by NBA for 3 years from AY 2020-21 to AY 2022-23. NBA expert visit was conducted on 31 Jan 2020.

NATIONAL BOARD OF ACCREDITATION

NBAC Place, East Tower, 4th Floor, Bhasham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 ; Telefax: +91 11 4308 4903
Website: www.nba.acf.org



File No. 28-463-2016-NBA

Date: 05-03-2020

To,

The Principal
Pillai HOC College of Engineering and Technology,
Pillai HOCL Educational Campus,
Rasayani, Tal. Khalapur,
Dist. Raigad, Maharashtra-410207.

Subject: Further accreditation status on the basis of Compliance Report of the program in Tier-II offered by Pillai HOC College of Engineering and Technology, Pillai HOCL Educational Campus, Rasayani, Tal. Khalapur, Dist. Raigad, Maharashtra-410207.

Sir,

This is regarding Compliance Report submitted by Pillai HOC College of Engineering and Technology, Pillai HOCL Educational Campus, Rasayani, Tal. Khalapur, Dist. Raigad, Maharashtra-410207 for the UG Engineering programs which were accredited by NBA in Tier-II for academic years 2017-18 to 2019-20 whose validity is expiring on 30.06.2020.

2. An Expert Team conducted data verification of the programs on 31st January, 2020. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

| Sl. No. | Name of the Program(s) (UG) | Basis of Evaluation | Accreditation Status | Period of validity | Remarks |
|---------|-----------------------------|---------------------|----------------------|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Mechanical Engineering | Tier-II Document | Accredited | Academic Years 2020-2021 to 2022-2023 i.e. upto 30-06-2023 | Accreditation status granted is valid for the period indicated in Col. or till the program has approval of the competent authority, whichever is earlier. |
| 2. | Computer Engineering | | Accredited | | |

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to Pillai HOC College of Engineering and Technology, Pillai HOCL Educational Campus, Rasayani, Tal. Khalapur, Dist. Raigad, Maharashtra-410207 as a whole. As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

Contd./...

3. Winner of IMC Ramkrishna Bajaj National Quality Performance Excellence Trophy 2019 Cycle in Education Category

4. Workplace Safety Awards 2019

PHCET applied for workplace safety award 2019 under the Category - Projects and Institutes. This was a scheme floated by Bombay Chamber of Commerce and Industry and won first position out of 28 applicants.



Institute evaluation was done based on the following parameters:

1. Management Commitment
2. Office location-based risks (flooding, natural/man-made calamities, structural stability), details of onsite emergency preparedness plan, preventive maintenance plan, energy meter, water meter, AC systems, facility of physically challenged, basement usage, CCTV, office security details, back-up power supply, legal compliance etc
3. Resources Conservation
4. Health & Wellness
5. Community Outreach
6. Infrastructure Design
7. Alternate Energy Sources
8. Waste Management
9. Safety & Emergency Preparedness
10. Institute Best Practices

10.2 Students' Achievements

Team Starkers

Team Starkers, participated in National Event's (7th GKDC and 5th E-GKDC) at Kari Motor Speedway, Coimbatore.



The team designed and manufactured two vehicles, Combustion vehicle (150 CC) Go-Kart as well as Electric Go-Kart for the competition. The results for Combustion vehicle-150 CC named "SYENA"

1. All India Ranking - 2nd position,
 2. Aesthetic Winner,
 3. Endurance Winner,
 4. Engineering Design Runner Up,
 5. Acceleration Runner Up.
- The results for Electric Go-kart named "AARYA"
6. All India Ranking - 4th position,
 7. Endurance Second Runner Up,
 8. Acceleration Runner Up,
 9. Assembly's Disassembly Winner