

# Annual Report (2020-2021)

A very good evening to one and all ! I on behalf of MMCOE welcome you all on this occasion of Annual Gathering-Ensemble 2k22. This is the first annual social gathering after pandemic situation.

COVID-19 affected mankind globally. Students and staff is also one among them.

During the first wave of COVID 19, Marathwada Mitra Mandal took the initiative of distribution of 800 food packets/day for more than three months to various needy people in various areas viz Karvenagar, Warje, Malwadi, New Ahire gaon under Warje Malwadi Police station area with the help of few social workers under the guidance of Warje Malwadi Police Authorities and PMC authorities.

On the contrary it resulted with the distinctive rise of e-learning, whereby teaching was undertaken remotely and on digital platforms. Teachers continued with coordinated and collective efforts to fight Covid-19 and made productive use of their time during the current situation by adopting Information and Communication Technology (ICT) for teaching learning process and contribute towards the intellectual wealth of the students. Teachers used virtual classrooms to teach with all necessary tools, which makes the online sessions as effective as traditional ones. Online platforms that support live-video communication were used by learners as well as the facilitators.

Google Meet – Video calls integrated with other Google’s G-Suite tools. Video meeting recordings, Screen sharing. Google Calendar was used to schedule lectures, seminars, webinars and sharing the details via mail and social media tools. Online class/conference session were saved in Google Drive and shared with students for future reference.

To conduct exams, institution made use of online examination software Moodle. This prevented institution in facing delays in its annual academic calendar for lockdown. Many expert lecture series were conducted free of cost from variety of esteemed organizations. e.g. Indian Machine Tool Manufacturers Association (IMTMA), Renishaw Ltd.,

The online learning platforms helped the students not only get full access to the study material but also allowed them to engage in online classes and interact with the teachers like the physical classroom setting.

For expansion of knowledge of teachers, students, and researchers the Institution stressed, use of some digital initiatives. • SWAYAM online courses: provides access to best teaching learning resources free of cost. • MOOC • National Digital Library: is a digital repository of a vast amount of academic content in different formats and provides interface support for leading Indian languages for all academic levels including researchers and life-long learners, all disciplines. • Shodhganga • DIKSHA portal.

## Highlights:

- Mechanical Engg, and Electrical Engg Programmes are NBA accredited.

- Phd Research Centre for Computer Engineering
- AI/DS branch from this academic year 2022-23
- Internships: More than 500 students did internship in the year 2019-20, 2020-21 and more than 50 MBA students inspite of the pandemic situation

### **Students Achievements**

- 'Team Abhedya' of MMCOE, secured all over India 4th rank in SAEINDIA BAJA held at Pithampur, Indore, MP
- 'Team Abhedya Racers' of MMCOE won runner up acceleration award worth Rs 20,000/- and secured 14th rank all India in SUPRA SAEINDIA 2019 event held at BIC, Delhi from 15th July to 20th July
- 'Team ACHILLES' of MMCOE Secured All India 6th Rank and Won's Prizes in SAEINDIA EFFI-CYCLE 2019 Competition held at LPU, Jalandhar, Punjab on 1st - 5th October 2019.
- 'Team Rudra' of MMCOE secured 11th rank all over India in ROBOCON-2019 held at IIT Delhi
- Team MMCOE secured 26th all over India in AERODESIGN Challenge held at Chennai

### **Faculty Achievements**

- Research grants worth 16 lakhs from various funding agencies received for various projects at Institute level and for Mechanical, Computer and IT department collectively.
- Dr K.R. Patil was awarded as, Best Faculty Advisor by SAE India and National level 'Dronacharya Award' of BAJA SAEINDIA 2019 and 2020 respectively.
- Dr. Vijay Bhatkar was given Best Student Chapter award as Faculty Advisor by ISHRAE
- More than 150 papers and around 15 book chapters are published in International Journals, conferences in the past two years by faculty.
- **PhD awarded during these two years:**
  1. Dr Ms. S.N. Shekapure
  2. Dr Ms. S.S. Shiravle
  3. Dr Ms. G.R.Chillarge
  4. Dr Ms. A.M.Solanke

5. Dr Ms. M.A.Dudhedia
6. Dr A.B.Gholap
7. Dr P.K.Tamkhede
8. Dr R.M.Chopade

### **Higher studies**

I am proud to say that our Engineers do not restrict themselves till graduation but spread their wings for going further for post graduation to Universities like University of Texas, Florida International University, University of IOWA and so on

### **Sports and Cultural Achievements**

Our students have shown their talent even in cultural and sports activities to name a few:

- Gold Medal in Akhil Bhartiya Sanskruti Sangh (NGO & official of UNESCO based in Pune)
- Third rank in स्वा. सावरकर वाङ्मय वक्तृत्व स्पर्धा २०१९-२०
- First Rank in state level Elocution and Poetry competition
- 3rd Place in Savitribai Phule Pune University,Pune City Zone Intercollegiate Chess (Men) competition

### **Certification courses/ Workshops/Seminars conducted by various departments during last two years for students**

Various workshops/ courses/ seminars were conducted by various departments during the last two years on topics like Data Analytics, Data Science and Big Data Analytics, Machine learning, Block chain, IoT, Cyber security, Hands on training on Proteus, PCB Designing, CATIA, Solar Device fabrication, Health and happiness, Meditation and so on. More than 100 workshops/seminars were conducted offline and online using ICT tools during pandemic.

### **Seminars conducted by various departments during last two years for faculty**

With holistic development of students, seminars were also conducted for the faculty in the area of research namely, How to write a research proposal, IPR, Patents etc. along with topics like Data Science, Latex, Automation Technologies and so on.

To name a few Workshops like

- Three days webinar on Scope of Nanomaterials in Engineering and Technology (SNET)
- Five Days FDP on "Advancements in IOT" under CSI Student Chapter MMCOE, Pune(Online)

- “ IoT Applications” by Mr. Abhigyanam Giri, Training Head , IndEyes Infotech Pvt. Ltd.
- Three days FDP on “NBA Accreditation and Outcome Based Education” were organized.
- Three Days Workshop on : Python based Artificial Intelligence
- One day seminar on " Basics of PLC " sponsored by B & R Automation
- Three days online FDP in " Recent Trends in Technology & Digital Education"
- Add on Course on Geometric Dimension and Tolerancing as per ASME GD&T standard
- MATLAB and Electrical Measuring Instruments
- Power Electronics component selection, testing and Prototype Making
- German language

### **Extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS**

More than 25 activities were conducted under NSS, to name a few.

- Guinness World Record of sapling distribution
- International Yoga Day Celebration
- Blood Donation Camp
- Grocery Donation
- Webinars on topics like, Gender equality, NCC- an elite organization etc. were organized

### **Collaborations**

There are number of collaborative activities for research, faculty and student exchange etc every year in the form of MoUs, internships, sponsored projects, Industrial visits in various industries like Softhard Automation, Santron Meditronics, Prudent Software, Reliance Industries, Automatic Eletric Pvt. Ltd, Lonavala, Endress +Hauser, Aurangabad and so on.

There are more than 70 MoUs signed with companies in different sectors.

### **Placements**

I am glad to say that our students are placed in companies like, Persistent, CAPgemini, TCS, Infosys and the list is endless with highest salary of 25 lakhs.