# Ajeenkya DY Patil School of Engineering

## Internal Quality Assurance Cell (IQAC)

### Institute Distinctiveness

## Promoting Academic Excellence and Environmental Sustainability

The key areas where the institute has initiated quality measures:

1. NABL- TCS (Testing and Consultancy Services) Lab

2. Go-Kart

3. Innovation Ecosystem

4. Center of Excellence: IIT Kanpur

5. Students Chapter: Society for Data Science

6. Action for Restoring Environment

The institute takes great pride in its institutional distinctiveness, focusing on promoting academic excellence and environmental sustainability. The institute has several initiatives and clubs that contribute to this overarching goal.

**NABL- TCS (Testing and Consultancy Services) Lab:**

The TCS Lab, a unique Testing and Consultancy Services Lab of the institute, holds a unique distinction in the Savitribai Phule Pune University (SPPU) as the only lab to achieve National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation. This accreditation, obtained in September 2021, covers a comprehensive range of 33 tests. The lab's commitment to quality and professionalism has earned them an impressive clientele, including reputed private builders, government organizations, and educational institutions. Currently, the lab serves 122 clients and has generated total revenue of Rs. 25.91 lakhs till date. To enhance sample collection from different sites, the lab acquired a Maruti EECO vehicle, improving efficiency. In

addition to its contributions to testing and consultancy services, the lab actively supports academic excellence. It awards scholarships to meritorious students, recognizing their achievements and providing financial assistance. In the academic year 20-21, two outstanding girl students were awarded a prize of Rs 5,000 each. Moreover, in the current year 22-23, the lab has rewarded five meritorious students with bicycles worth Rs 6,000 each. This initiative not only recognizes the students' achievements but also promotes environmental awareness among the students and society. The lab also actively participates in the Earn and Learn scheme of SPPU, offering valuable learning and earning opportunities to 25 students. Through this program, students gain practical experience and enhance their skills while earning income. Additionally, the lab has facilitated placements for 13 students in reputed construction companies, showcasing the practical experience and knowledge gained through their time in the TCS Lab. Looking ahead, the TCS Lab has ambitious plans to expand its services and obtain NABL accreditation for its geotechnical and environmental lab by September 2023. These expansions will further enhance the lab's capabilities and contribute to its mission of providing cutting-edge services in the field. The lab's commitment to excellence, academic support, and industry exposure not only benefits its clients but also empowers students and faculty members, ensuring a holistic growth and development ecosystem in the field of testing and consultancy services. Along with the TCS lab, the institute also helps to develop teamwork and communication skills of students through Go-Karting.

### Go-Kart:

Go-karting enthusiasts have a thrilling opportunity to participate in the Auto India Racing Championship (AIRC) organized exclusively by the institute across India. Our college boasts a unique 1 km track dedicated to go-kart racing, providing an exhilarating experience for enthusiasts. The last AIRC event attracted 28 teams across the country, with college in-house teams showcasing their racing skills and passion. The SAE Club at the institute, in collaboration with SAE India is proud to host the prestigious Autonomous BAJA Event, drawing talented individuals nationwide. Excitingly, the institute plans to launch its own E- go kart Racing event, offering students a platform to explore electric vehicle knowledge.

### Innovation Ecosystem:

The institute's Centre for Innovation Incubation and Entrepreneurship (CIIE) nurtures student innovation. The center has a Technology Business Incubator (TBI), an Intellectual Property Rights (IPR) Cell, and Entrepreneurship Cells. The TBI cell is equipped with 3D printers, software, ASUS, Raspberry Pi, and a product development lab, enabling students to bring their ideas to life. Over 20 ideation sessions have been conducted, generating 100+ ideas for patents. We have

published 11 patents, with 6 granted and copyrights. The Government of India sanctioned 81.9 lakhs for the 'SPRING' project. The center aims to enhance the innovation ecosystem, empowering students as successful entrepreneurs and change-makers in their chosen fields.

## Center of Excellence: IIT Kanpur:

The Centre of Excellence of the Computer Department excels in collaborations and offers cutting-edge courses. The center signed MoUs with esteemed institutions like IIT Kanpur and Digital Parv. Through IIT Kanpur, the center conducted Cyber Security courses benefiting 100 students. Additionally, the center offered a Cloud Computing course using AWS, attracting 130 participants. Collaborating with Digital Parv and Microsoft Azure, the center provided courses and certifications benefiting 300 students. The expertise gained through these courses has yielded remarkable results, as our students emerged as winners in the Smart India Hackathon 2022, securing the first prize. Future plans include a full-stack web development course in collaboration with IIT Kanpur. Alongside the Centre of Excellence, the Utsaah Club and Biodiversity Club stand at the forefront of our institute's commitment to excellence and sustainability.

## Students Chapter:- Society for Data Science(S4DS):

The Society for Data Science (S4DS) is a renowned organization dedicated to advancing the field of data science. Establishing a student chapter allows for the creation of a local community that can engage in activities such as workshops, seminars, and collaborative projects, enhancing the learning experience for students interested in data science. A student chapter for the Society for Data Science is a significant step towards creating a dynamic and collaborative community of future data scientists.

By collaborating with S4DS and seeking guidance, we aim to ensure a seamless integration of the student chapter into the broader data science community. Through regular feedback and evaluation, we aspire to continuously enhance the student experience, creating a thriving ecosystem that empowers the next generation of data scientists.

## Action for Restoring Environment:

The Biodiversity Club, on the other hand, takes a focused approach to environmental sustainability on campus, making the campus greener and healthier. This includes conducting tree plantation events to promote sustainability and creating a habitat to attract a variety of birds on the campus. Water pots are strategically placed to provide hydration for the birds, and seeds of exotic kitchen vegetables are planted in shaded areas, fostering a sustainable ecosystem. The club along with the environmental club encourages the avoidance of single-use plastics by utilizing ecofriendly

bamboo or reusable alternatives. Furthermore, the institute actively practices the principles of reduce, reuse, and recycle, with one ton of material being given to vendors for recycling and ecosystem restoration. In recognition of these efforts, the institution has received two rankings on Green Institutions of India, showcasing its commitment to environmental sustainability. Additionally, the institution has been awarded a Gold Certificate from the Swaraj Energy Foundation for making 1000+ people energy literate, highlighting its contributions to renewable energy adoption and conservation. Moreover, the institute has received two awards for its efforts in creating a green, clean, and pollution-free campus, demonstrating its dedication to maintaining an eco-friendly environment. Overall, the institute cultivates a culture of academic excellence, environmental consciousness, sustainability, and social responsibility in order to create a holistic and enriching learning environment.