

Best Practice – I

TITLE: Satej Math's Scholar – Empowering Rural Students through Mathematics Examinations for HSC Students.

OBJECTIVES:

- To inculcates interest about Mathematics among HSC students.
- To promote engineering courses and its career opportunities to rural students.
- To help 12th Science students of rural areas, prepare for the CET/JEE and related entrance exams.

CONTEXT:

The institute inculcates interest about Mathematics as a subject among HSC students. These students have least access to high quality technical education and preparations for entrance exams like CET/JEE. Such students miss on better prospectives even though they are deserving. Identifying this plight of deserving students, we as an engineering college, understanding the responsibility of promoting education, initiated a Mathematics MOCK examination. Hence, "Satej Math's Scholar" practice examination was specifically designed and implemented by the institute to address the educational disparities and empower rural students through awareness creation of technical education. This initiative would help bring these students into mainstream technical education field.

THE PRACTICE:

The "Satej Math's Scholar" practice comprises of vital steps:

Identification and Outreach: College reaches out to the student fraternity, offering personalized mentorship to potential students, bridging the urban-rural gap, and identifying those with higher education aspirations.

Coaching and Study Materials: The College collaborated with an IIT coaching academy, to provide CET/JEE exam preparations through online and offline methods. Study materials are also provided to students.

Mock Examinations: Mock CET exams are designed to simulate actual entrance examinations which familiarizes students with the exam pattern and optimize time management. Students approach from adjoining 4 to 5 districts attending in large numbers, hence meals are provided for over 2000 students turnout.

Result Declaration and Appreciation: After the mock examinations assessments are done and the results are declared, the toppers are recognized and appreciated for their achievements with cash prizes.

Familiarization with technical education: Institute takes students on visits to prominent technical institutions in Kolhapur, thereby helping students to gain insights into the facilities and overall learning environment in these institutions.

EVIDENCE OF SUCCESS:

The initiative's success is evident in rising registrations for MOCK CET exams – from 991 in 2021 to 2,002 in 2023, a noteworthy aspect is the high percentage of registered students. Approximately 90% of the registered students come from rural backgrounds. This statistics highlights the success of the institute's efforts in reaching out to and engaging rural students, ensuring that they have equal access to opportunities for technical education.

Sr No	Year	Students Registered -SATEJ MATHS SCHOLAR
1	2021	991
2	2022	1413
3	2023	2002

PROBLEMS ENCOUNTERED:

The implementation of the “Satej Math’s Scholar” practice faced challenges related to Basic science faculty, study materials logistics and hospitality being a huge response. To successfully implement the practice, the institute required experienced faculty members, adequate study materials- practice tests, previous years’ question papers, and instructional videos. Examination department conducting paper setting, exam conduction and assessment of papers is a task being handled efficiently. Addressing these challenges involves careful planning and coordination. Overcoming these challenges demonstrated the institute’s commitment to empowering rural students and bridging the educational gap.

RESOURCES REQUIRED:

- Experienced faculty for quality coaching and mentoring.
- Comprehensive study materials.
- Logistics and Hospitality.



Best Practice – II

TITLE : Skill Development Programs for Skill Enhancement

OBJECTIVES:

- To enhance the technical & Entrepreneurial skills of students through various skill development programs.
- To provide government-certified certificate courses to the students upon successful completion of the programs.
- To encourage students to apply the skills they learn in the programs to create innovative solutions to real-world problems.

CONTEXT:

The Skill Development Center and the institute's Incubation Center, both hand in hand working together in skilling, support and nurture entrepreneurial ventures by the students. Recognizing the importance of skill development in enhancing employability and fostering socio-economic growth, the center aims to equip students with the necessary skills and provide them with government-certified certificates, which is necessary for government funding. The objective is to promote skill development and provide employment opportunities, ultimately contributing to the socio-economic development of the region.

THE PRACTICE:

Understanding the benefits of social outreach and recognizing the need to bridge the educational gap, the management of Dr. D.Y. Patil Pratisthan's College of Engineering decided to conduct skill development programs, which offer a diverse range of unique courses in the context of higher education in India. These programs are thoughtfully designed to equip students with practical skills and knowledge that hold significant value in the competitive job market. Encompassing various industries such as IT, finance, marketing, hospitality, and healthcare, the programs provide students with industry-relevant expertise, making them highly employable upon completion. The practice of the Skill Development Program includes enrollment target setting, student mobilization, counseling, shortlisting, and document verification, profile creation, training provision, assessment, and government certification. The institute sets targets for enrollment, mobilizes students, provides counseling, shortlists eligible candidates, verifies documents, creates student profiles and delivers comprehensive training. Upon successful completion of the Skill Development Program and meeting the assessment criteria, the students are awarded government-certified certificates. These certificates validate the skills and knowledge gained by the students, enhancing their employability prospects. This systematic approach ensures effective skill development and training for students participating in the program.

The institute conducts skill development programs such as Plumber, Industrial Electrician, Domestic Electrician Solutions, Junior Software developer, and CRM Non-Voice. These programs focus on enhancing students' skills and are taught by experienced trainers who provide hands-on training. Upon successful completion, students are awarded government-certified certificates. The flexibility and accessibility of the programs ensure that all students can benefit from them, also that the programs align with market demands, enhancing the employability of students. Continuous updates to incorporate emerging technologies and advancements in respective industries keep the programs relevant and up-to-date. Overall, the institute's Skill Development Programs stands out for their practical approach, industry relevance, and commitment to fostering innovation. These programs equip students with the skills and knowledge necessary to succeed in the job market while promoting entrepreneurship and addressing real-world challenges.

EVIDENCE OF SUCCESS:

The Skill Development Programs at the institute have demonstrated strong evidence of success in achieving their objectives. The institute's commitment to excellence and the quality of its programs

has been recognized by the All India Council for Technical Education (AICTE), which has provided funding based on the institute's performance. This recognition and support from AICTE serve as a testament to the effectiveness and impact of the Skill Development Programs.

The institute's ability to consistently meet and exceed its enrollment targets is a clear indication of the high demand and interest among students for these programs. The performance of students in the programs has been outstanding, as evidenced by their placements in reputable companies and organizations. The positive feedback from participants further validates the effectiveness of the Skill Development Programs in meeting the needs and expectations of stakeholders. As a result of the Skill Development Programs, a total of 190 students have passed out to date, receiving government-certified certificates. These certificates are necessary for Government funding in Entrepreneurship initiatives. Overall, the evidence of success in the Skill Development Programs is demonstrated through the achievement of enrollment targets, positive feedback from participants, high student satisfaction, and tangible outcomes.

PROBLEMS ENCOUNTERED:

The main challenge faced by the institute is the lack of awareness among students about the skilling initiatives from AICTE and Government of India. Many students are not aware of the opportunities available through these programs. Another challenge is the availability of resources; Skill development programs require appropriate equipment, skilled trainers, and infrastructure to deliver effective training. To address this challenge, the institute promoted this initiative in the interest of students. Optimization and utilization of existing resources and seeking innovative solutions helped mitigate the resource constraints.

RESOURCES REQUIRED:

The institute requires resources such as modern equipment and tools, experienced trainers, and upgraded infrastructure to provide better training facilities. Additionally, the institute needs to increase its marketing efforts to raise awareness about the skill development programs among students.



Junior Software Developer Course



CRM Non-Voice Course



Plumbing Course



Industrial Electrician Course



Domestic Electrician Course