

Developing Technocrats through Mentoring (DTTM)

Objective: The primary objectives of the DTTM program encompass a holistic approach to student development:

Academic Development: Providing students with tailored academic support, resources, and guidance to excel in their studies, ensuring they grasp fundamental concepts and advanced topics effectively.

Personality Development: Focusing on enhancing students' soft skills, such as communication abilities, teamwork, time management, problem-solving, critical thinking, and leadership qualities. These skills are crucial for their personal growth and future career success.

Career Guidance: Assisting students in identifying their career goals, exploring various career paths, and providing guidance to help them make informed decisions about their professional aspirations.

Support for Different Learners: Recognizing the diverse learning needs of students by identifying and supporting.

Slow Learners: Offering additional academic assistance, personalized coaching, and resources to help them improve their understanding and performance.

Fast Learners: Providing opportunities for advanced learning, challenging projects, and mentorship to nurture their talents and capabilities.

Weak Learners: Offering targeted support, remedial classes, and interventions to help them overcome academic challenges and enhance their learning outcomes.

Overall Performance Improvement: Creating a conducive learning environment that fosters academic excellence, personal growth, and professional development for all students.

Context:

The program is implemented in a college located in a rural area near Nagapattinam, catering primarily to economically disadvantaged Tamil medium students. These students often face unique challenges such as limited access to quality education, lack of exposure to career opportunities, and financial

constraints. The DTTM program aims to bridge these gaps, empower students with essential skills and knowledge, and prepare them to succeed in the competitive engineering field while contributing positively to society.

Practices:

Identification of Student Goals: Conducting an induction program to understand students' aspirations, academic goals, and personal development objectives through goal-setting forms.

Comprehensive Report Analysis: Analyzing goal-setting forms by Academic and Governing Councils to develop actionable plans and strategies tailored to students' needs.

Mentoring: Assigning mentors in a 1:20 ratio to provide personalized guidance, academic support, career counseling, and overall mentorship throughout students' academic journey. **Counseling Services:** Offering a range of counseling services including academic, personal, and career counseling to address students' diverse needs, challenges, and aspirations.

Skill Capacity Building: Organizing skill development workshops, training programs, and value added courses to enhance students' technical, soft, and communication skills essential for their academic and professional success.

Support for Different Learners: Providing customized resources, coaching classes, remedial support, and interventions to meet the unique learning needs of slow, fast, and weak learners, fostering their continuous improvement and development.

Evidence of Success:

Improved Student Performance: Observable enhancements in students' academic performance, demonstrated by their semester results, grades, and achievements in various academic and extracurricular activities.

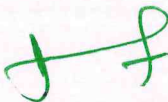
Increased Self-Confidence: Students exhibit higher levels of self-confidence, motivation, and self-efficacy, reflected in their willingness to take on challenges, engage in leadership roles, and pursue innovative projects.

Innovative Projects: Students actively participate in and contribute to innovative projects, research activities, and practical applications of their knowledge, showcasing their creativity, problem-solving skills, and real-world applicability of their learning.

Positive Feedback from Parents: Parents express satisfaction and appreciation for the program's effectiveness in supporting their children's academic, personal, and career development, attributing their progress and growth to the dedicated mentoring and support provided.

Problems Encountered and Resources Required :

Limited Interaction Time: Addressing constraints related to limited interaction time between mentors and students, exploring innovative ways to maximize mentorship effectiveness within the given time constraints. Faculty Availability: Ensuring sufficient availability of faculty members beyond college hours, leveraging technology and collaborative platforms to facilitate continuous mentorship, support, and engagement with students, enhancing their academic and personal development effectively.


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