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Proceedings of

DRISHTI – 2025

A New Era in Management & Technology

3rd International Conference

9th August 2025

Organised by

VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]

[Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Recognized by Govt. of Karnataka]

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PREFACE

Welcome to Drishti 2025, 3rd International Conference organized by Vivekananda College of Engineering & Technology (VCET), Puttur. Since its establishment in 2001 by the Vivekananda Vidyavardhaka Sangha, Puttur, D.K., Karnataka, VCET has been dedicated to fostering academic excellence and innovation. As we gather on 9th August 2025, we are excited to explore and discuss the latest advancements and challenges across Management, and Technology.

This year's conference will feature a series of dynamic tracks, each delving into critical areas of contemporary relevance. The first track will focus on contemporary management practices, offering insights into the latest strategies and methodologies that are transforming organizational operations. This exploration will cover innovative approaches to leadership and management, aiming to equip attendees with valuable knowledge on navigating and excelling in today's complex business environment.

Another significant area of discussion will be the advanced technologies in computing and communication. This track will spotlight cutting-edge developments that are reshaping the technological landscape. Participants will gain a deep understanding of emerging trends such as artificial intelligence, machine learning, and advancements in communication networks, along with their profound impact on various sectors and society at large.

Drishti 2025 aims to create a vibrant forum for interdisciplinary dialogue, collaboration, and the exchange of ideas. We are honoured to host a distinguished group of speakers, researchers, and practitioners who will share their expertise and insights, contributing to a rich and stimulating conference experience.

We extend our heartfelt gratitude to all who have contributed to making this event possible. Your participation and engagement are crucial to the success of Drishti 2025. We look forward to a conference that will inspire and drive progress in these critical areas of knowledge.

Dr. Robin Manohar Shinde, Dr. Jothimani K

Conveners, Drishti-2025

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Web-Based Automatic Timetable Scheduler for Colleges

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ABSTRACT

Timetable generation in educational institutions is a complex task involving numerousconstraints, such as faculty availability, classroom assignments, subject load, and session continuity. Manual scheduling methods are often inefficient, error-prone, and difficult to scale, especially in multi-department and multi-semester academic environments. The Web-Based Automatic Timetable Scheduler for Schools & Colleges addresses this challenge by providing an intelligent, web-based timetable generation system using Genetic Algorithms. Built using Python and the Streamlit framework, the system allows administrators to input essential scheduling parameters including faculty details, subject details, classroom availability, and slot preferences. The core of the application employs a Genetic Algorithm to evolve feasiblesolutions, guided by a fitness function that prioritizes conflict resolution, slot continuity and balanced faculty workloads. Both hard constraints and soft constraints are incorporated to ensure practical and optimal scheduling. The generated timetables are structured to prevent common scheduling issues such as double allotment for teachers and same subject clashes, also provides scalability to accommodate elective subjects, lab sessions, and multi-semester academic structures. The system outputs user-friendly, downloadable schedules and allows for administrative oversight and adjustments. This, demonstrates the potential of evolutionary computation in solving NP-hard optimization problem of timetable scheduling, offering a scalable, accurate, and efficient solution to a long-standing administrative challenge in academic institutions.

Keywords*: Timetable Scheduler, Genetic Algorithm.*

About the College

Vivekananda College of Engineering & Technology (VCET), Puttur, is one of the reputed engineering colleges in the coastal region of Karnataka. It was established in the year 2001 by Vivekananda Vidyavardhaka Sangha Puttur (R.) with the vision of providing quality technical education to the rural parts of coastal Karnataka. The institute has excellent infrastructure facilities that include spacious classrooms, state-of-the art laboratories, well furnished hostels, transportation facility, library, disciplined and ragging free learning environment. Today the Institute has been identified as a centre for excellence in imparting engineering education to aspiring students from all over the country and is bringing out best academic performance from the students.

VCET offers 6 UG programs which include, Artificial Intelligence & Machine Learning, Computer Science & Engineering, Computer Science & Engineering (Data Science), Electronics & Communication Engineering, Mechanical Engineering, Civil Engineering and 2 PG programs Master of Business Administration (MBA) and Master of Computer Application (MCA).

Objectives of the Conference

- To foster collaboration and knowledge exchange for advancing management and technology practices on a global scale.
- To prepare faculty and students to synthesize, analyze, and integrate their knowledge of business disciplines to provide innovative and credible solutions to organizational problems and opportunities.
- To identify best practices for managing innovation and technology in different industries.

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