7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Introduction:

Park College of Engineering and Technology, Coimbatore, is a leading technical institute that has been at the forefront of promoting research and development. The college has always been focused on imparting quality education to its students, and it has been successful in producing professionals who are equipped with the latest skills and knowledge required for a successful career. This report aims to portray the performance of the college in the research and development area, highlighting new innovations such as hydrogen fuel, the CDIO concept implemented to develop product design, and the unique student skill development programs that the college has adopted.

Research and Development Area:

Park College of Engineering and Technology has a dedicated research and development center that works towards promoting innovation in various fields of engineering and technology. The center is equipped with state-of-the-art facilities and equipment that enables researchers and students to undertake cutting-edge research projects.

Research work on hydrogen fuel going on at the Park College of Engineering and Technology in Coimbatore. Hydrogen fuel is a promising alternative to traditional fossil fuels, as it is a clean and renewable energy source that can be used to power a variety of applications, including vehicles, power generation, and heating.

There are many challenges to developing hydrogen fuel technology, such as finding efficient ways to produce and store hydrogen, as well as developing infrastructure to support widespread use of hydrogen fuel. It is exciting to know that researchers at Park College of Engineering and Technology are working on these challenges and contributing to the advancement of hydrogen fuel technology.

CDIO Concept Implemented for Product Design:

The college has implemented the CDIO (Conceive-Design-Implement-Operate) concept to develop product design. This concept focuses on developing product design that is user-centric and meets the needs of the end-user. The CDIO concept emphasizes a practical approach to

product design, and the college has been successful in developing products that are not only innovative but also user-friendly.

The college has a dedicated product design center that works on developing innovative products. The center is equipped with the latest design software and equipment that enables designers to develop products that meet the highest standards of quality and design. The products developed at the center are not only innovative but also cost-effective and practical.

Student Skill Development:

Park College of Engineering and Technology is committed to developing the skills of its students, enabling them to become successful professionals. The college has adopted a unique approach to student skill development, focusing on developing practical skills that are essential for a successful career.

The college has a dedicated skill development center that works towards developing the skills of students. The center offers a range of programs that are designed to develop practical skills, such as communication skills, leadership skills, and teamwork skills. The center also offers specialized programs that focus on developing technical skills, such as programming skills, design skills, and research skills.

The college has a unique approach to student skill development, emphasizing practical training and hands-on experience. The college encourages students to participate in various projects and internships, enabling them to gain practical experience in their chosen field.

Conclusion:

Park College of Engineering and Technology, Coimbatore, is a leading technical institute that has made significant progress in promoting research and development. The college has made significant progress in the field of hydrogen fuel research and has developed innovative products using the CDIO concept. The college has also adopted a unique approach to student skill development, focusing on developing practical skills that are essential for a successful career. The college's commitment to promoting innovation and developing the skills of its students has made it a preferred choice among students aspiring to pursue a career in engineering and technology**.**