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SUSTAINABILITY CLUB |

DEPARTMENT OF CIVIL ENGINEERING

SRKR ENGINEERING COLLEGE (A)

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INTRODUCTION

The world is currently facing serious environmental challenges. The unsustainable use of natural resources and their associated environmental impacts affect the provision of basic ecosystem services, including food, water, and the nutrient cycle. A large number of resources will be needed to create a decent life for the growing population in developing economies. Development pathways could be either sustainable or business-oriented, with conflicting goals. Therefore, it becomes necessary to care for people today as well as future generations by following sustainable development pathways. The challenge can be addressed by reducing environmental impacts, ensuring equitable distribution among people both locally and globally, and conserving resources for future generations.

Planet Earth is facing a severe global crisis. Economic and social development is putting an unbearable strain on our environment. Inefficient production and consumption patterns, together with uneven distribution, have widened the existing gap between North and South. Global warming has posed a significant challenge to the Earth and its populations. Climate change poses challenges to growth and development. It will amplify existing risks and create new risks for natural and human systems. Risks are generally greater for disadvantaged people and communities in countries at all levels of development. Increasing magnitudes of warming increase the likelihood of severe, pervasive, and irreversible impacts for people, species, and ecosystems. Continued high emissions would lead to predominantly negative impacts on biodiversity, ecosystem

services, and economic development, thereby amplifying risks to livelihoods, food security, and human security.

The risk is very severe in India and other least developed countries, where livelihoods and income depend on climate-sensitive primary sectors such as agriculture and aquaculture, which are affected by rising temperatures, rising sea levels, and erratic rainfall. Stress on water resources, reduced crop productivity, and changes in the incidence and geographic range of water-borne diseases are identified as key risks in the Western Delta Region of Andhra Pradesh.

In this regard, environmental education plays a crucial role in fostering the development of skills, attitudes, and motivations that enable citizens to make informed decisions and take responsible

actions that incorporate environmental considerations. Inculcating students in environmental education is an important and effective strategy to address the environmental and climate challenges facing the world, as they constitute a large proportion of the population. It can also create an opportunity to intervene at a key developmental stage of students, which can have a significant influence on the environmental behaviour of their parents. Colleges are a convenient place to teach and equip students in environmental and climate change issues, as they make up a substantial proportion of the students, by encouraging them to engage in formal environmental education and college clubs.

Strengthening the sustainability club plays a vital role in building a green and resilient economy by enhancing awareness and understanding of the student community about environmental, climate change, and sustainable consumption and production issues. This also changes the lifestyles and values of the college community.

OBJECTIVE

The objective of Sustainability Club is to help students become environmentally conscious and enable participation in activities to develop environment friendly skilled, and attitudes dedicated and responsible citizens who are willing to work, individually and collectively towards achieving high quality of life and environment.

MISSION

- Increase eco-consciousness by learning about Environment, Sustainable development
- Provide a positive forum in which students can be creative, innovative, and develop leadership skills
- Positively impact peers, families, colleges, communities, and planet by participating in community service projects
- Promote college environmental activities and community projects
- Participate in field studies to increase knowledge about eco-related issues
- Bring noted speakers to the college to inspire and educate peers about sustainability
- Involving in the mini-projects related to waste utilization and the waste-to-energy nexus
- Participate in habitat restoration
- Increase college-wide energy efficiency and waste management
- Inspire others by participating in Earth, Environment, and Water Day events, projects, and sustainathon’s
- Participate in the plantation drive

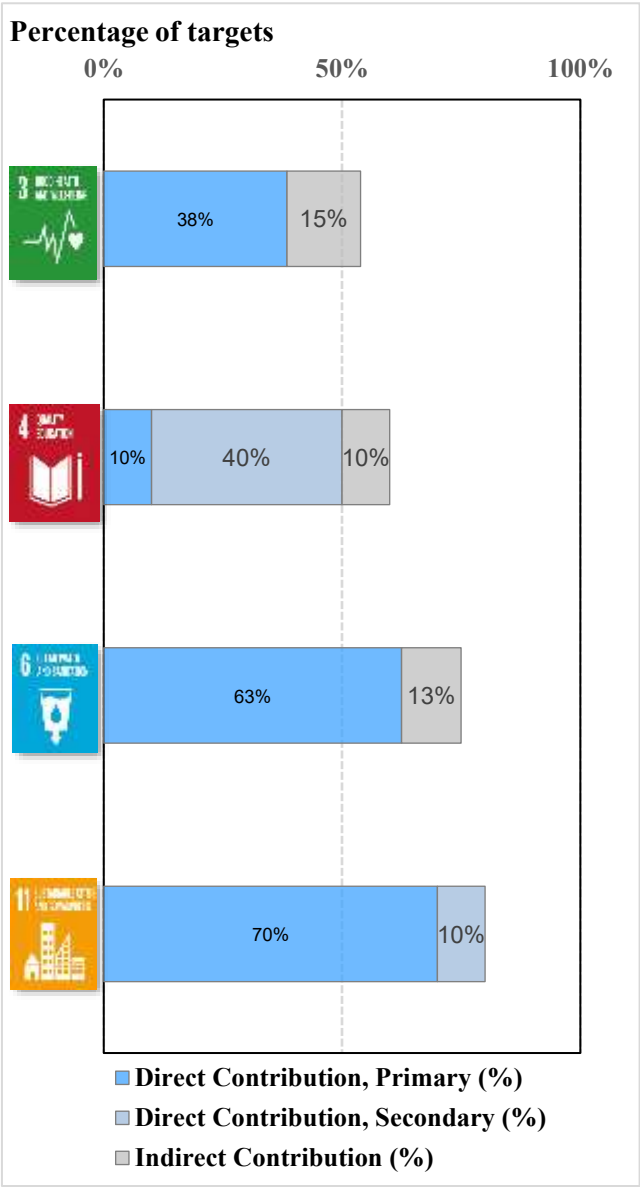
SRKREC Sustainability Club in delivering the United Nations Sustainable Development Goals

SDG 3: Students identify contaminants in water and soil and provide advice on reducing pollution and contamination risks through remediation measures. By safeguarding potable water supplies and mitigating exposure to contaminants, they directly promote healthier communities.

SDG 4: The club embeds sustainability into student training, ensuring learners develop technical expertise and problem-solving skills aligned with national development ambitions. Through hands-on projects, students acquire the knowledge necessary to make meaningful contributions to a sustainable future.

SDG 6: Members enhance water-use efficiency by monitoring water quality, identifying aggressive waterbody conditions, and strengthening the resilience of water supply infrastructure. They also play a key role in detecting contamination sources, pathways, and receptors during project development, offering effective remediation and monitoring strategies to ensure safe and sustainable water management.

SDG 11: Students contribute to waste management and reducing the impact of solid waste on the environment. They also support sustainable and resilient building development by exploring eco-friendly materials and construction methods, thereby promoting urban sustainability.



SRKREC Sustainability Club

Supported by

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