



## Criterion 7 - Institutional Values and Best Practices

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### 7.2 Best Practices

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**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

#### **BEST PRACTICE 1**

**Title of the Practice: ENGINEERING FOR SOCIETAL DEVELOPMENT**

#### **Goal**

The Mechanical and Automobile departments at SSET have consistently focused on increasing public and student awareness of road safety. The Civil Department conducted a survey, which revealed an increase in road fatalities due to accidents, highlighting the need for widespread public awareness. SCMS Institute for Road Safety and Transportation (SiRST), a center of excellence in road safety and transportation innovation that combines the energy of youth, the strength gained through experience, and the depth of technical knowledge to ensure ecological balance through green mobility, enabling a safe, seamless, and sustainable travel experience.

#### **The Context**

- An intellectual center for safe transport, driving academy.
- Supports Government and Non-Government organizations in road safety, transport innovation and coordination, green mobility, technical problem-solving, law and policy making.
- Bridging all technical gaps related to the road.
- Combines the innovative intellectual ideas as well as synergy of students along with the experience and technical know-how of faculty for social good.

#### **The Practice**

- Programs and Research on causes of accidents and its solutions.
- Research in vehicle safety, educational programs like Know Your Vehicle.



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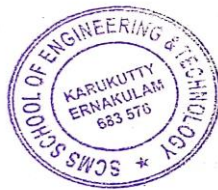
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- Awareness campaigns on various aspects of road safety and transportation for students, institution staff, and the public in Kerala and surrounding areas.
- Workshop on sustainable ground water management by Department of Civil Engineering.

### Evidence of Success

The SCMS Institute for Road Safety and Transportation (SiRST) along with Department of Mechanical, Automobile and Civil Engineering has been the key ingredient in coming up with challenging solutions.

1. Know Your Vehicle programs -
2. Workshops on sustainable ground water management
3. Road Safety awareness sessions
4. Crash Prevention Course



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Sl. No.	Description	Venue	Hosted by	No. of Participants	Date	Resource Persons
<b>ROAD SAFETY AWARENESS PROGRAM (SCMS INSTITUTE FOR ROAD SAFETY AND TRANSPORTATION)</b>						
1	Road Safety awareness session session to SSET Students	SSET	SiRST	537	05-04-2024	Mr. Adarsakumar G Nair
2	Road Safety – A Safe System Approach	Mookanoor Vikasana SAMithi Members	Mookanoor Vikasana SAMithi Members	70	26/5/2024	Mr. Adarsakumar G Nair
3	Road Etiquette	Driver training at Indian oil corporation bottling plant Udayamperoor	Driver training at Indian oil corporation bottling plant Udayamperoor	60	24-05-2024	Mr. Adarsakumar G Nair
4	Road Safety awareness session to SSA Students	SSA	SSA	72	19-04-2024	Mr. Adarsakumar G Nair
5	Road Safety awareness session at NSS Volunteers – CoE Munnar	CoE Munnar	CoE Munnar	72	19-04-2024	Mr. Sujay K
6	Road Safety awareness session at SCMS Cochin	SCMS Cochin	SCMS Cochin	109	17-04-2024	Mr. Adarsakumar G Nair
<b>PACE</b>						
1	Surakshayanam PACE	Ace College of Engineering, Trivandrum	Ace College of Engineering, Trivandrum	54	2/3/2024 to 3/3/2024	Mr. Sujay K, Mr. Rakesh A, Mr. Rajesh, Mr. Rakesh A
<b>KNOW YOUR VEHICLE</b>						
Sl. No.	Description	Venue	Hosted by	No. of Participants	Date	Resource Persons

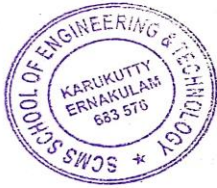


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1	Know Your Vehicle	SCMS School of Technology and Managemen	SCMS School of Technology and Managemen	47	25/03/2024	Mr. Adarsakumar G Nair, Mr. Prathik Nayar, Mr. Sujay K, Mr. Vipin Raj P G
2	Know Your Vehicle	Medical Trust Institute of Medical Sciences, Irumpanam	Medical Trust Institute of Medical Sciences, Irumpanam	270	16/03/2024	Mr. Adarsakumar G Nair, Mr. Sujay K
3	Know Your Vehicle	SSET	SiRST	29	15/04/2024	Mr. Adarsakumar G Nair
<b>SEMINARS</b>						
1	Leading Change: “Rishiraj Singh IPS on Combatting Drugs and Road Hazards”	SCMS Seminar Hall, Cochin School of Business	SCMS Seminar Hall, Cochin School of Business	171	3-4-2024	Mr. Adarsakumar G Nair



*Handwritten signature in green ink, dated 15/12/24.*

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2. **Community well-being** is infused through activities initiated by NSS, SiRST (SCMS Institute for Road Safety and Transportation), and H2O (Helping Hands Organisation) for societal improvement.
3. **Technological advancement** through IEDC, Yi YUVA, and Fab Lab, we have fueled the fame of innovative spirits in our students, allowing them to be viable enough to spear up for innovations.
4. As part of an initiative to develop **environmental responsibility**, our students are responsible enough to contribute to the sustainability of our environment, as evidenced by various activities on and off campus.
5. **Social impact** began as philanthropic efforts to assist those in need. Visiting old ages homes, coordinating the relief camps, road safety awareness campaign at are all the efforts by our students.
6. **Economic Viability, Community service opportunities** and a sense **civic duty** have been initiated through various programs of NSS to instill a sense of social responsibility in students through effective coordination and participation.

### Evidence of success

The indigenous faculty student partnership has been the key ingredient in coming up with challenging solutions.

1. Save Energy Awareness Campaign by Department of Electrical and Electronics Engineering students in nearby houses in the month of June, 2023.
2. 24 hour 'HACK' from 31-10-2023 to 17-11-2023 for school students of standard 8 to 12.
3. Project ongoing by students of Department of Electronics and Communication Engineering on Forest Fire Fighting FPV Drone under the guidance of Principal Investigator Mr. Vinoj P. G. (Assistant Professor) funded by CERD an amount of Rs. 25,000/-. The amount was sanctioned in March 2023 and till May 2024, the Project is in progress.
4. Railway Safety project by Department of Computer Science and Engineering students in collaboration with Bharat Tech Foundation and Pradjna Intellisys Pvt Ltd.
5. Project on Road safety by Department of Computer Science and Engineering students on Optimal Intersection Operation with Median U-Turn- 3D Visualization for Four



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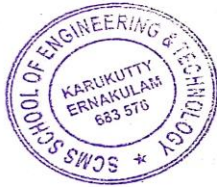
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Intersections at Aluva.

6. Nature based STP project implemented on Elamakkara school by Department of Civil Engineering.
7. Microprojects based on Sustain nature by Department of Computer Science and Engineering students



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