



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

Criterion 7 - Institutional Values and Best Practices

7.2 Best Practices

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

- Projects to make students know about techno-legal-social awareness in road safety and transport and prepare students for various competitive examinations.
- Research on causes of accidents and its solutions.
- Research in vehicle safety, educational programs like KYV and KYR.
- Programs to introduce technological changes in the field of transportation happening at the international level in our state.
- Awareness programs on various aspects of road safety and transportation.
- Various certificate courses in transportation planning, designing, traffic engineering, traffic management etc.

Evidence of Success

SCMS Institute for Road Safety and Transportation (SiRST)



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1. ROAD SAFETY AWARENESS PROGRAM

Sl. No.	Description	Venue	Hosted by	No. of Participants	Date	Resource Persons
1	Road Safety Awareness	SUB RTO - THRIPIYAR	SUB RTO - THRIPIYAR	50	16-2-2023	Adarsakumar G Nair
2	Road Safety Awareness	Government Ayurvedha Medical College, Thripunithara	Government Ayurvedha Medical College, Thripunithara	63	23-2-2023	Adarsakumar G Nair
3	Road Safety awareness to Auto Rickshaw and bus drivers	SNDP Library, Palissery	SiRST	47	1-3-2023	Adarsakumar G Nair
4	Road safety awareness	SNV Sanskrit HSS, N Paravur	SNV Sanskrit HSS, N Paravur	25	25-3-2023	Adarsakumar G Nair
5	Road Safety Awareness for KAP Drivers	Kerala Armed Police	Kerala Armed Police	20	29-3-2023	Adarsakumar G Nair
6	Road Safety Awareness	Seminar Hall, SCMS Cochin	SiRST	220	29-3-2023	Adarsakumar G Nair
7	Road Safety Awareness	Seminar Hall, SCMS Cochin	SiRST	200	30-3-2023	Adarsakumar G Nair
8	Road Safety Awareness	Seminar Hall, SCMS college of polytechnic perumbavoor	SiRST	220	12-4-2023	Adarsakumar G Nair
9	Road safety awareness	Summer camp named Payis 2023 organized by Missiyo team @ Donbosco School, Vaduthala	Missiyo team @ Donbosco School, Vaduthala	35	30-4-2023	Sujay K
10	Road safety awareness	Government High School, palissery	National Service	65	5/5/2023	Adarsakumar G Nair



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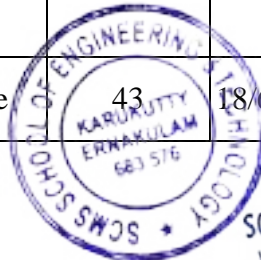


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			Scheme Unit of SSET			
11	Public transport Awareness	Metro stations	School Students	300	2/5/2023 - 9/5/2023	Adarsakumar G Nair Sujay K
12	Road safety awareness	Summer camp named Payis 2023 organized by Missiyo team @ Jyothir bhavan, kalamassery	Missiyo team @ Jyothir bhavan, kalamassery	30	20-5-2023	Sujay K
13	Road Safety awareness class to EIB Drivers	EIB Drivers @ Choice Public School	Sub RTO_ Thripunithara	162	23-5-2023	Adarsakumar G Nair
14	Road Safety awareness class to EIB Drivers	EIB Drivers @ Naipunya public School	RTO - angamaly	204	24-5-2023	Adarsakumar G Nair
15	Road Safety awareness class to EIB Drivers	SCMS Cochin	Joint RTO, Aluva	130	25-5-2023	Adarsakumar G Nair Sujay K Dr Devika
16	Book Releasing function - Kadhayile karyam - Related to road safety	SCMS Cochin	SiRST, Hornbill Publications	250	4-6-2023	
17	Capacity Building Program to AMVI's Management training in Soft skills, Public Speaking and Road safety	SCMS Cochin	MVD Kerala and SiRST	101	10-6-2023	Adarsakumar G Nair Sujay K Anoop MS
18	CYCLE SAFETY	Online	Indus Cycle	43	18/6/2023	Adarsakumar G Nair



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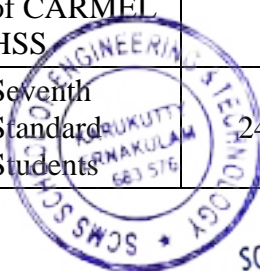


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19	Road Safety Awareness Session	Sienna College of Professional Studies	NSS Unit and Department of Computer Science	350	20/6/2023	Adarsakumar G Nair
20	Road Safety Awareness Session	CKM NSS Public School, Chalakudy	CKM NSS Public School, Chalakudy	202	23/6/2023	Adarsakumar G Nair
21	Road Safety awareness Campaign at Edapally Junction	Edapally Junction	SiRST, YI YUVA, NSS, Kerala Police and MVD kerala	1080	25/6/2023	Sujay K Suraj Rakesh A Divya
22	Capacity Building Program to Driving School Instructors	SCMS College of Polytechnic	SiRST, MVD kerala, Driving School Associations	57	27/6/2023	Adarsakumar G Nair Sujay K Prathik Nayar Vaishak V
23	Road Safety Awareness Session	Renai Medicity	Management of Renai Medicity	47	6/7/2023	Adarsakumar G Nair
24	Road Safety Awareness Session	Driving School, Edapally	pre learners class as it is a preparatory class for the learners licence holders.	32	8/7/2023	Adarsakumar G Nair
25	Road Safety Awareness Session	YMCA Aluva	Driving School Instructors and Workers	120	8/7/2023	Adarsakumar G Nair
26	Road Safety Awareness Session	AL AMEEN COLLEGE EDATHALA	NSS UnIt and Motor Vehicle department	350	12/7/2023	Adarsakumar G Nair
27	Road safety awareness and NSS Orientation	Carmel HSS Chalakudy	National Service Scheme Unit of CARMEL HSS	100	13/7/2023	Sujay K
28	Road Safety Awareness Session	Bhavans Vidya mandir, Elamakkara	Seventh Standard Students	240	14/7/2023	Adarsakumar G Nair



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29	Capacity Building Program to Driving School Instructors	SCMS College of Polytechnic	Driving School Instructors and Workers	72	15/7/2023	Adarsakumar G Nair Sujay K Prathik Nayar Vaishak V
30	Capacity Building Program to Driving School Instructors	SSET	Driving School Instructors and Workers	169	19/7/2023	Adarsakumar G Nair Sujay K Prathik Nayar Aravind P V
31	Road safety awareness	Safety institute	Students	20	25/7/2023	Adarsakumar G Nair
32	Road Safety Awareness Session	UHSS Ananadu	HSE Students	185	25/7/2023	Adarsakumar G Nair
33	Capacity Building Program to Driving School Instructors	SCMS College of Polytechnics	Driving School Instructors and Workers	70	29/7/2023	Adarsakumar G Nair Sujay K Prathik Nayar Vaishak V
34	Road Etiquette for college bus drivers	SSET	SiRST	14	7/8/2023	Adarsakumar G Nair
35	Road Safety Awareness Session	Conference Room, Crescent Public School	Crescent Public School, Chalakudy	152	10/8/2023	Adarsakumar G Nair
36	Road Safety Awareness Session	Conference room, MAMHSS Koratty	MAMHSS, Koratty	302	11/8/2023	Sujay K
37	Capacity Building Program to Driving School Instructors	Cinnamon County Auditorium, Thodupuzha	Sub RTO, Thodupuzha in association with SiRST	57	12/8/2023	Adarsakumar G Nair Sujay K Prathik Nayar Vipinraj P G
38	Road Safety Awareness Session	Adarsh Charitable Trust Special School	Adarsh Charitable Trust Special School	30	17/8/2023	Adarsakumar G Nair



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39	Road Safety Awareness Session	IOC Bottling Plant, Udayamperoor	IOC Treuk Drivers	75	19/8/2023	Adarsakumar G Nair
40	Road Safety Awareness Session	Coastal Star - Trivandrum	Coastal Star	60	25/8/2023	Adarsakumar G Nair
41	Road Safety Awareness Session	Coastal Star - Ernakulam	Coastal Star	140	26/8/2023	Adarsakumar G Nair
42	Road Safety Awareness Session	First Year Induction Program	SSET	200	11/9/2023	Sujay K
43	Road Safety Awareness Session	First Year Induction Program	SSET	200	11/9/2023	Sujay K
44	Road Safety Awareness Session	First Year Induction Program	SSET	100	14/9/2023	Sujay K
45	DriverEd - Motor Vehcile Regulations awareness Program to college Bus Drivers	Confernce Room	SiRST	14	20/9/2023	Sujay K
46	Road Safety Awareness Session	Students of St. Teresa's College, Ernakulam	St. Teresa's College (autonomous), Ernakulam	700	29/9/2023	Adarsakumar G Nair
47	Behavioral Aspects of Driving	Kochi Metro Feeder service Drivers	KMRL OPERATIONS Control office	65	9/10/2023	Adarsakumar G Nair
48	Road Safety Awareness Session	Conference Room - Kuttukkaran Polytechnic College	Paravoor SRTO	115	21/10/2023	Adarsakumar G Nair

2. COMPETITIVE EXAM TRAINING

SiRST



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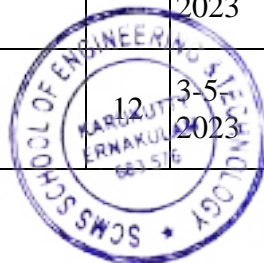
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Sl No.	Description	Venue	Hosted by	No. of Participants	Resource Person	Date
1	AMVI Training Program	AC 1-105	SiRST in association with Department of Automobile Engineering	26	Mr. Adarsakumar G Nair	27-3-2023
2	AMVI Training Program - Motor Vehicle Rules	AC 1-105	SiRST in association with Department of Automobile Engineering	14	Mr. B J Antony	17/4/2023
3	AMVI Training Program - Motor Vehicle Rules	AC 1-105	SiRST in association with Department of Automobile Engineering	18	Mr. B J Antony	18/4/2023

**DRIVER COUNSELLING CENTRE
(CRASH PREVENTION COURSE)**

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Sl No.	Description	Venue	Hosted by	No. of Participants	Date	Resource Persons
1	Driver Counselling Centre	SiRST Office	SiRST	17	5-4-2023	Adarsakumar G Nair Mufeeda Sujoy K
2	Driver Counselling Centre	Mini confere	SiRST	12	3-5-2023	Adarsakumar G Nair Mufeeda Sujoy K



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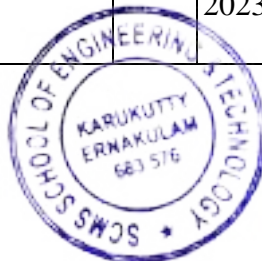


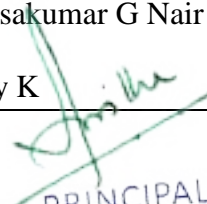
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		nce room				
3	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	87	4-5-2023	Adarsakumar G Nair Mufeeda Sujoy K
4	Driver Counselling Centre	Conference Hall, SCP	SiRST	37	24-5-2023	Adarsakumar G Nair Mufeeda Sujoy K
5	Driver Counselling Centre	Mini conference room	SiRST	14	7-6-2023	Adarsakumar G Nair Mufeeda Sujoy K
6	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	84	8-6-2023	Adarsakumar G Nair Anu Sujoy K
7	Driver Counselling Centre	Conference Hall, SCP	SiRST	48	14-6-2023	Adarsakumar G Nair Mufeeda Sujoy K
8	Driver Counselling Centre	Mini conference room	SiRST	27	7-5-2023	Adarsakumar G Nair Mufeeda Sujoy K
9	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	86	6-7-2023	Adarsakumar G Nair Anu Sujoy K
10	Driver Counselling Centre	Conference Hall, SCP	SiRST	77	12/7/2023	Adarsakumar G Nair Mufeeda Sujoy K
11	Driver Counselling Centre	Mini conference room	SiRST	11	2-8-2023	Adarsakumar G Nair Mufeeda Sujoy K
12	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	91	3-8-2023	Adarsakumar G Nair Anu Sujoy K




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13	Driver Counselling Centre	Conference Hall, SCP	SiRST	87	10-8-2023	Adarsakumar G Nair Mufeeda Sujoy K
14	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	105	22-8-2023	Adarsakumar G Nair Anu Sujoy K
15	Driver Counselling Centre	Training Hall, SCMS Cochin	SiRST	107	5-9-2023	Adarsakumar G Nair Anu Prathik Nayar
16	Driver Counselling Centre	Conference Hall, SCP	SiRST	68	12-9-2023	Adarsakumar G Nair Mufeeda Sujoy K
17	Driver Counselling Centre	Mini conference room	SiRST	21	9-13-2023	Adarsakumar G Nair Mufeeda Sujoy K
18	Driver Counselling Centre	Conference Hall, SCP	SiRST	127	19-3-2023	Adarsakumar G Nair Anu Sujoy K
19	S1- Crash Prevention Course	Training Hall, SCMS Cochin	SiRST and IDTR	38	18/10/2023	Adarsakumar G Nair Prathik Nayar Sujoy K Dileep Kumar (MVI)
20	S2 - Crash Prevention Course	Mini conference room	SiRST and IDTR	37	25/10/2023	Adarsakumar G Nair Prathik Nayar Sujoy K Dileep Kumar (MVI) Mufeeda
21	S3- Crash Prevention Course	Conference Hall, SCP	SiRST and IDTR	27	30/10/2023	Adarsakumar G Nair Prathik Nayar Sujoy K Dileep Kumar (MVI) Mufeeda

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PACE

1	SAFE CAMPUS	Al Ameen College, Edathala	MVD Kerala	15	21-3-2023	Adarsakumar G Nair SAdiq Ali Dileep Kumar
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						MVI Krishnadas IMA Cochin
2	SAFE CAMPUS	SCMS School of Engineering and TEchnology	MVD Kerala in association with SiRST, Department of Automobile Engineering and NSS Unit of SSET	60	19-4- 2023	Adarsakumar G Nair SAdiq Ali Dileep Kumar MVI Krishnadas IMA Cochin
3	Surakshyanam PACE	SCMS School of Engineering and TEchnology	MVD Kerala in association with SiRST, APJ AKTU NSS CELL, Kerala Road Safety authority and NSS Unit of SSET	257	9-9- 2023 10-9- 2023	Adarsakumar G Nair SAdiq Ali Dileep Kumar MVI George Joseph IMA Cochin Sujoy K

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KNOW YOUR VEHICLE

Sl. No.	Description	Venue	Hosted by	No. of Partici pants	Date	Resource Persons
1	KNOW Your Vehicle Trainers Training Program	Automobil e Workshop	SiRST in association with Department of Automobile Engineering	62	28-2-2023	
2	KNOW Your Vehicle Trainers Training Program	Automobil e Workshop	SiRST in association with Department of Mechanical Engineering	66	28-3-2023	Adarsaku mar G Nair Sujoy K Anoop MS Koshy P Joseph
3	KNOW Your Vehicle Trainers	Automobil e Workshop	SiRST in association with Department of	44	25-4-2023	Adarsaku mar G Nair Sujoy K Anoop MS



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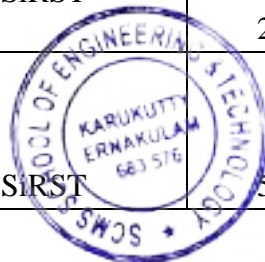


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	Training Program		Mechanical Engineering			Koshy P Joseph
4	Know Your Vehicle campaign to ladies	SCMS Muttom	SWARA, SiRST	112	15-5-2023	Adarsakumar G Nair Sujay K Anoop MS
5	Know Your Vehicle campaign to ladies	Rotary Club of Cochin-Balbhavan	SiRST, Rotary Club of Cochin and Inner Wheel Club of Cochin	21	24/6/2023	Adarsakumar G Nair Sujay K Koshy P Joseph
6	KNOW Your Vehicle Program	Automobile Workshop	SiRST in association with Department of Automobile Engineering and Women's forum	29	21-7-2023	Adarsakumar G Nair Prathik Nayar Sujay K Anoop MS
7	Chauffeur Training Program	Mercedes Benz Coastal Star	SiRST in association with Coastal Star and IQAC	18	8-8-2023	Adarsakumar G Nair Prathik Nayar Sujay K
8	KNOW Your Vehicle Program	Bhavans College of Arts and Commerce	SiRST	175	21-8-2023	Adarsakumar G Nair Prathik Nayar Sujay K
9	Know your vehicle program	First year students of SSET	SiRST	26	8-9-2023	Sujay K
10	KNOW Your Vehicle - Training of	Mechanical and Automobile	SiRST	50	12/10/2023	Adarsakumar G Nair Sujay K



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Training Program	Engineering - SCP				Prathik Nayar Vaisak V
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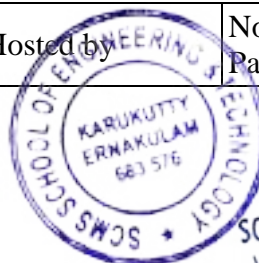
SEMINARS

Sl. No.	Description	Venue	Hosted by	No. of Participants	Date
1	Ente Keralam	Marine Drive, Kochi	Government of Kerala	50 + web live	4-4-2023
2	Re-imaging Public transportation Eco-system - One day conference	Seminar Hall, SCMS Cochin school of Business	KMRL and SiRST	95	16-6-2023
3	SEMINAR & PANEL DISCUSSION – TECHNOLOGIES TO MITIGATE FIRE ACCIDENTS OF AUTOMOBILES	Conference Room	Department of Automobile Engineering in association with SiRSt	25	16/9/2023
4	Road safety - a safe system approach	Conference Room	SiRST	123	6/10/2023
5	Road Safety Seminar in association with Kerala Kaumudi and SSA	Conference Room, SSA	SiRST	115	1/11/2023

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RESEARCH ACTIVITIES

Sl. No.	Description	Venue	Hosted by	No. of Participants	Date
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				SC MS	Society	
1	A STUDY ON THE CUSTOMER PERCEPTION TOWARDS KOCHI WATER METRO LTD. WITH SPECIAL REFERENCE TO THE HIGH COURT-VYPIN ROUTE	HIGH COURT - VIPIN ROUTE	KOCHI WATER METRO LTD. . SCMS COCHIN (PGDM) and SCMS School for Technology and Management (SSTM)	5	KOCHI Water Metro users	15 days of Survey on MAY 2023
2	BLACK SPOT IDENTIFICATION	KODUNGALOR	Department of Automobile Engineering	4	National Highway users	
3	Preliminary Visit Junction Planning	Kaloor and Kalamassery	SiRST, Police and MVD	5		4-7-2023
4	Meeting with Commissioner of Police, Ernakulam	office of Commissioner of Police, Ernakulam	SiRST, Police	4		8-8-2023
5	Traffic survey for Natpaac at Thrikkakara	Thrikkakara	NATPAAC	73		22-8-2023
6	Traffic survey for Natpaac at Thrikkakara	Thrikkakara	NATPAAC	53		6-10-2023




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Long 76.399513°
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Long 76.399513°
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Kochi, Kerala, India
3882+VRH, Marth Vayalandy, Kuttanadu, Kochi, Kerala 683576, India



GPS Map Camera

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VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

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The Practice

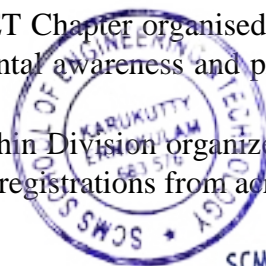
SSET advances and manages sustainable activities and initiatives in campus by promoting curricula and research, focusing on campus sustainability through coordination of resource conservation on campus, and student sustainability, which collaborates with the Institute to create opportunities for student engagement and leadership. The initiatives were:

1. SSET has made significant progress in improving energy efficiency by implementing energy management systems to optimize energy usage, as well as installing **energy-efficient** lighting and a solar power plant on campus. As part of a green audit, we have zero percent carbon emissions, which substantiates the presence of greenery on campus.
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. 24 hour 'HACK' from 31-OCT-2022 to 01-NOV-2022 for school and college students.
2. H2O's, Join hands for rebuilding lives: One brick at a time a community well-being initiative SPARSHAM – 2023.
3. Yi Yuva Digital Detox Skit Competition, Nithya S, a student from S3 ECE, was awarded the "Best Actress" and secured overall 4th position.
4. Yi YUVA, in collaboration with the Kerala Police, Motor Vehicle Department - Kerala, SiRST, NSS, and Medical Trust, organized a comprehensive road safety awareness campaign at Edapally Junction.
5. On June 5, 2023, the Yi Yuva SSET Chapter organised a fruit sapling planting event with the goal of raising environmental awareness and providing students with hands-on learning opportunities.
6. SAE India Southern Section – Cochin Division organized SAE Trek on April 1st and April 2nd, 2023 which received 49 registrations from across the southern states and an



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online hackathon “Auto Hack” February 2022 on the technical knowledge of the students on February 2022.

7. SAE & IEDC, conducted a vehicle review competition “Auto Analyst” on 21st February 2022 and a 2-day hands on “Workshop on 3D Printing” for the 8th Semester students and also “Go Kart WORKSHOP” at Karukutty campus exclusively on February 19th & 20th, 2020.
8. Collaboration on a funded project from Higher College of Technology, Muscat, Sultanate of Oman Smart Mask for developing a social distancing system for Covid was done.
9. The Association of Energy Engineers held a "Project competition" in two stages. The first phase was a "Idea Pitching Competition" on November 29th, 2022, and the second phase was a "Modelling Competition" on December 8th, 2022.
10. Hands-on training on coding with the Arduino board and simulation using TinkerCad Software by Mr Jebin Lukose, PG scholar, Department of Electronics and Communication.

Geotagged Photos to substantiate the evidence



Solar Panel Installed as a result of **Energy Conservation** in Academic block at SSET.



Jebin Lukose
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LED Bulbs/Tubed replaced as a result of **Energy Conservation** in Academic block at SSET.

**Join Hands for Rebuilding Lives:
One Brick at a Time**

SPARSHAM - 2023



Project 1
Eccentric roof of a house



Project 2
Remove the Cattle shed

For queries for volunteering and contribution
Contact: Asst. Prof. Abhil Baby
991 97477 94319

Contribution can be made to:
Helping Hands Organization
Account number: 288611034003471
IFSC: IHDIN0584655
1, Vasa Bank of India, Palloor Street



SPARSHAM – 2023, initiative of H2O, NSS student’s volunteers at old age home, Waste Management sessions as part of **Community well-being**.



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Technological advancement - Student's Outstanding Achievement in Yi Kochi Business Plan Contest



Technological advancement - 24 hour 'HACK' by IEDC from 31-OCT-2022 to 01-NOV-2022



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As a part to develop **Environmental responsibility** students planting saplings in and outside the campus.





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Social impact, Community service opportunities and evoking a sense
Civic duty among students

Yi YUVA SSET Chapter & SiRST
presents
**SiRST - Yi YUVA Road Safety
Campaign 2023**

in association with

25 JUNE, 2023 | 9 AM TO 12 PM | VENUE: EDAPPALLY SIGNAL JUNCTION

SCMS School of Engineering & Technology
Campus: Vidya Nagar, Karukutty, Ernakulam- 683576
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**ROAD SAFETY AWARENESS
CAMPAIGN** in association with
**Kerala Police, MVD Kerala,
SiRST and NSS**



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APJAKTU NSS CELL
UNIT NO: 182 & 328

VAZHACHAL NATURE CAMP

21-24 September, 2023.

AREA OF WORK: VAZHACHAL



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