Education & Research (ED)

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be **University** *u/s 3 of UGC Act, 1956)*

Learn To Lead

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Contents

SUSTAINABILITY EDUCATION AT SRM IST

"Education for Sustainable Development allows every human being to acquire the knowledge, skills, attitudes, and values necessary to shape a sustainable future. Education for Sustainable Development means including key sustainable development issues into teaching and learning; for example, climate change, disaster risk reduction, biodiversity, poverty reduction, and sustainable consumption. Education for sustainability (EfS) is essential to help people to understand and accept the need for significant changes in the way we operate socially and economically, in order to ensure a sustainable future for everyone. However, sustainable development can only be successful if it is embedded into the organization's curriculum, teaching and learning practices, as well as its estate management and community relations.

SUSTAINABILITY IN THE SRMIST CURRICULUM

At SRMIST, we take the approach that there is no definitive knowledge content that should be included in a curriculum addressing sustainability or sustainable development. we point to indicative curricular themes that may be more or less relevant to each disciplinary area and which might be used and adapted as 'entry points' to develop sustainability education further. Through our academic and professional courses, we're creating a global network of leaders and thinkers who have the capacity to collaborate, lead and deliver positive change.

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LIST OF COURSES WITH CODE & INTRODUCED YEAR

S. No	Program Name	Course Code	Name of the new course introduced in last five years	Year of Introduction
1.	Common course	15CY102	**Principles Of Environmental Science**	2015-16
2.	B.Tech in Civil Engineering	CE1025	**Water Supply And Environmental Engineering And Design**	2013-14
3.	B.Tech in Civil Engineering	CE1026	**Environmental Engg. Lab**	2013-14
4.	B.Tech in Civil Engineering	CE1121	**Design Of Earthquake Resistant Structures**	2013-14
5.	B.Tech in Civil Engineering	CE1122	**Industrial Pollution Prevention And Cleaner Production**	2013-14
6.	B.Tech in Civil Engineering	CE1123	**Ground Water Contamination And Quality Monitoring And Modelling**	2013-14
7.	B.Tech in Civil Engineering	CE1124	**Air Quality Monitoring And Modelling**	2013-14
8.	B.Tech in Civil Engineering	CE1125	**Advanced Waste Water Treatment Design**	2013-14
9.	B.Tech in Civil Engineering	CE1126	**Design Of Environmental Engineering Structures**	2013-14
10.	B.Tech in Civil Engineering	CE1127	**Noise Pollution Control And Its Control**	2013-14
11.	B.Tech in Civil Engineering	CE1128	**Marine Pollution Monitoring And Modelling**	2013-14
12.	B.Tech in Civil Engineering	CE1129	**Mass Transfer In Air-Water- Soil Interaction**	2013-14
13.	B.Tech in Civil Engineering	CE1130	**Instrumental Monitoring Of Environment And Modelling**	2013-14
14.	B.Tech in Civil Engineering	CE1131	**Rs And Gis For Environmental Engineering**	2013-14
15.	B.Tech in Civil Engineering	CE1132	**Air Pollution Control And Management**	2013-14
16.	B.Tech in Civil Engineering	CE1133	**Environmental Health Engineering**	2013-14
17.	B.Tech in Civil Engineering	CE1134	**Environmental Impact Assessment**	2013-14
18.	B.Tech in Civil Engineering	CE1135	**Industrial Waste Management**	2013-14
19.	B.Tech in Civil Engineering	CE1136	**Municipal Solid Waste Management**	2013-14

20.	B.Tech in Civil Engineering	CE1137	**Advanced Construction Techniques**	2013-14
21.	B.Tech in Civil Engineering	CE1138	**Construction Resource Planning And Management**	2013-14
22.	B.Tech in Civil Engineering	CE1142	**Urban Planning And Sustainable Development**	2013-14
23.	B.Tech in Civil Engineering	CE1143	**Design And Construction Of Pavement**	2013-14
24.	B.Tech in Civil Engineering	CE1145	**Coastal Zone Management**	2013-14
25.	B.Tech in Civil Engineering	CE1146	**Ground Water Engineering**	2013-14
26.	B.Tech in Civil Engineering	CE1147	**Hydraulic Machinery**	2013-14
27.	B.Tech in Civil Engineering	CE1148	**Hydrology**	2013-14
28.	B.Tech in Civil Engineering	CE1150	**Water Resources Engineering**	2013-14
29.	B.Tech in Civil Engineering	CE1151	**Hydropower Engineering**	2013-14
30.	B.Tech in Civil Engineering	CE1152	**Advanced Geotechnical Engineering**	2013-14
31.	B.Tech in Civil Engineering	CE1153	**Ground Improvement Techniques**	2013-14
32.	B.Tech in Civil Engineering	CE1154	**Structures On Expansive Soil**	2013-14
33.	B.Tech in Civil Engineering	CE1155	**Introduction To Soil Dynamics And Machine Foundation**	2013-14
34.	B.Tech in Civil Engineering	CE1156	**Environmental Geotechnology**	2013-14
35.	B.Tech in Civil Engineering	CE1157	**Geographical Information System**	2013-14
36.	B.Tech in Civil Engineering	CE1158	**Remote Sensing And Its Applications**	2013-14
37.	B.Tech in Civil Engineering	15CE306M	**Water Supply And Environmental Engineering And Design**	2015-16
38.	B.Tech in Civil Engineering	15CE407L	**Environmental Engineering Laboratory**	2015-16
39.	B.Tech in Civil Engineering	15CE357E	**Urban Planning And Sustainable Development**	2015-16
40.	B.Tech in Civil Engineering	15CE423E	**Groundwater Engineering**	2015-16

41.	B.Tech in Civil Engineering	15CE424E	**Coastal Engineering And Management**	2015-16
42.	B.Tech in Civil Engineering	15CE444E	**Environmental Geotechnology**	2015-16
43.	B.Tech in Civil Engineering	15CE461E	**Design Of Earthquake Resistant Structures**	2015-16
44.	B.Tech in Civil Engineering	15CE331E	**Industrial Pollution Prevention And Cleaner Production**	2015-16
45.	B.Tech in Civil Engineering	15CE332E	**Ground Water Contamination And Quality Monitoring And Modeling**	2015-16
46.	B.Tech in Civil Engineering	15CE333E	**Air Quality Monitoring And Modeling**	2015-16
47.	B.Tech in Civil Engineering	15CE334E	**Advanced Waste Water Treatment Design**	2015-16
48.	B.Tech in Civil Engineering	15CE335E	**Design Of Environmental Engineering Structures**	2015-16
49.	B.Tech in Civil Engineering	15CE339E	**Instrumental Monitoring Of Environment And Modeling**	2015-16
50.	B.Tech in Civil Engineering	15CE340E	**Rs And Gis For Environmental Engineering**	2015-16
51.	B.Tech in Civil Engineering	15CE341E	**Air Pollution Control And Management**	2015-16
52.	B.Tech in Civil Engineering	15CE342E	**Environmental Health Engineering**	2015-16
53.	B.Tech in Civil Engineering	15CE343E	**Environmental Impact Assessment**	2015-16
54.	B.Tech in Civil Engineering	15CE344E	**Industrial Waste Management**	2015-16
55.	B.Tech in Civil Engineering	15CE345E	**Municipal Solid Waste Management**	2015-16
56.	B.Tech. in Mechanical Engineering	15ME341E	**Sustainable Green Manufacturing**	2015-16
57.	B.Tech. in Mechanical Engineering	15ME343E	**Solar Energy Utilization**	2015-16
58.	B.Tech. in Mechanical Engineering	15ME364E	**Industrial Safety And Environment**	2015-16
59.	B.Tech. in Mechanical Engineering	15ME370E	**Environmental Pollution And Abatement**	2015-16

60.	B.Tech. in Mechanical Engineering	15ME372E	**Thermal Energy Storage Systems**	2015-16
61.	B.Tech. in Mechanical Engineering	15ME430E	**Solar Energy Systems**	2015-16
62.	B.Tech. in Mechanical Engineering	15ME433E	**Sustainable Energy Systems**	2015-16
63.	B.Tech. in Electrical and Electronics Engineering	15EE251E	**Sustainable Energy**	2015-16
64.	B.Tech. in Chemical Engineering	CH1101	**Energy Technology And Management**	2013-14
65.	B.Tech. in Chemical Engineering	CH1102	**Renewable Energy Engineering**	2013-14
66.	B.Tech. in Chemical Engineering	CH1103	**Energy Engineering And Technology**	2013-14
67.	B.Tech. in Chemical Engineering	CH1104	**Industrial Pollution Prevention**	2013-14
68.	B.Tech. in Chemical Engineering	CH1105	**Industrial Pollution Control**	2013-14
69.	B.Tech. in Chemical Engineering	15CH351E	**Renewable Energy Engineering**	2015-16
70.	B.Tech. in Chemical Engineering	15CH353E	**Energy Engineering And Technology**	2015-16
71.	B.Tech. in Chemical Engineering	15CH357E	**Environmental Engineering And Waste Management**	2015-16
72.	B.Tech. in Chemical Engineering	15CH363E	**Safety And Hazard Analysis In Process Industries**	2015-16
73.	B.Tech. in Chemical Engineering	15CH366E	**Environmental Quality Monitoring And Analysis**	2015-16

74.	B.Tech. in Chemical Engineering	15CH367E	**Waste Water Treatment**	2015-16
75.	B.Tech. in Biotechnology	BT1024	**Environmental Biotechnology**	2013-14
76.	B.Tech. in Biotechnology	BT1062	**Environmental Microbiology**	2013-14
77.	B.Tech. in Biotechnology	15BT302	**Environmental Biotechnology**	2015-16
78.	B.Tech. in Biotechnology	15BT413E	**Environmental Microbiology And Metagenomics**	2015-16
79.	B.Tech. in Genetic Engineering	15GN417E	**Environmental Microbiology**	2015-16
80.	B.Tech. in Nanotechnology	NT1116	**Green Nanotechnology**	2013-14
81.	B.Tech. in Nanotechnology	15NT201	**Fundamentals Of Solid State Engineering**	2015-16
82.	B.Tech. in Nanotechnology	15NT406E	**Green Nanotechnology**	2015-16
83.	Bachelor of Architecture	16AR 203	**Climate And Built Environment**	2016-17
84.	Bachelor of Architecture	16AR 206	**Environmental Science**	2016-17
85.	Bachelor of Architecture	16AR 302	**Sustainable Architecture And Green Building**	2016-17
86.	Bachelor of Architecture	16AR 451	**Environmental Planning**	2016-17
87.	M.Tech. in Construction Engineering and Management	CN2110	**Energy Conservation Techniques In Building Construction**	2015-16
88.	M.Tech. in Computer Integrated Manufacturing	ME2224	**Sustainable Green Manufacturing**	2015-16
89.	M.Tech. in Chemical Engineering	CH2112	**Waste Water Treatment - Physical Unit Operation & Chemical Unit Processes**	2015-16
90.	M.Tech. in Chemical Engineering	CH2113	**Waste Water Treatment Biological Processes**	2015-16
91.	M.Tech. in Biotechnology	BT2002	**Bioprocess Technology**	2015-16

92.	M.Tech. in Biotechnology	BT2108	**Biological Treatment of waste water**	2015-16
93.	M.Tech. in Biotechnology	BT2109	**Green Energy Technology**	2015-16
94.	M.Tech. in Remote Sensing & Geographical Information System	RS2111	**RS & GIS for Environmental Engineering**	2015-16
95.	M.Tech. in Remote Sensing & Geographical Information System	RS2112	**RS & GIS for Ocean Engg & coastal Management**	2015-16
96.	M.Tech. in Remote Sensing & Geographical Information System	RS2113	**RS & GIS for Disaster Management**	2015-16
97.	M.Tech. in Environmental Engineering	EN2002	**Environmental Microbiology And Ecology**	2015-16
98.	M.Tech. in Environmental Engineering	EN2003	**Solid Waste Management**	2015-16
99.	M.Tech. in Environmental Engineering	MA2005	**Environmental Statistical Methods**	2015-16
100.	M.Tech. in Environmental Engineering	EN2004	**Unit Operation And Processes In Water And Waste Water Treatment**	2015-16
101.	M.Tech. in Environmental Engineering	EN2005	**Air & Water Quality Modeling**	2015-16
102.	M.Tech. in Environmental Engineering	EN2006	**Design And Operation Of Water And Waste Water**	2015-16
103.	M.Tech. in Environmental Engineering	EN2103	**Hazardous Waste Management**	2015-16
104.	M.Tech. in Environmental Engineering	EN2104	**Rs And Gis For Environmental Engineering**	2015-16

105.	M.Tech. in Environmental Engineering	EN2105	**Ecological Engineering**	2015-16
106.	M.Tech. in Environmental Engineering	EN2106	**Environmental Impact Assessment**	2015-16
107.	M.Tech. in Environmental Engineering	EN2107	**Biological Treatment Of Wastewater**	2015-16
108.	M.Tech. in Environmental Engineering	EN2108	**Environmental Biotechnology**	2015-16
109.	M.Tech. in Environmental Engineering	EN2109	**Environmental Policies And Legislation**	2015-16
110.	M.Tech. in Environmental Engineering	EN2110	**Ground Water Contamination And Transport Modeling**	2015-16
111.	M.Tech. in Environmental Engineering	EN2112	**Instrumental Monitoring Of Environment**	2015-16
112.	M.Tech. in Environmental Engineering	EN2113	**Marine Pollution Monitoring**	2015-16
113.	M.Tech. in Environmental Engineering	EN2114	**Mass Transfer In Air-Water-Soil Interaction**	2015-16
114.	M.Tech. in Environmental Engineering	EN2115	**Physical And Chemical Treatment Of Water And Wastewater**	2015-16
115.	M.Tech. in Environmental Engineering	EN2116	**Environmental Engineering Structures**	2015-16
116.	M.Tech. in Environmental Engineering	EN2117	**Cleaner Production**	2015-16
117.	M.Tech. in Environmental Engineering	EN2118	**Air Pollution Control**	2015-16
118.	M.Tech. in Environmental Engineering	EN2120	**Environmental Chemistry**	2015-16
119.	M.Tech. in Power Systems	PS2001	**Modern Power System Analysis**	2015-16

120.	M.Tech. in Power Systems	PS2108	**Wind and Solar Energy Systems**	2015-16
121.	M.Tech. in Power Systems	PS2112	**Energy Management and Auditing**	2015-16
122.	M.Tech. in Genetic Engineering	GN2108	**Plant-Environment interaction**	2015-16
123.	M.Tech. in Geotechnical Engineering	GT2111	**Environmental Geotechnology**	2015-16
124.	M.Tech. in Solar Energy	ME2401	**Solar Radiation and Energy Conversion**	2015-16
125.	M.Tech. in Solar Energy	ME2416	**Energy Conservation and Management**	2015-16
126.	M.Tech. in Solar Energy	ME2417	**Energy Efficient Buildings and Systems**	2015-16
127.	M.Tech. in Solar Energy	ME2418	**Advanced Energy Storage**	2015-16
128.	M.Tech. in Solar Energy	ME2424	**Environmental Impact of Energy Systems**	2015-16
129.	M.Tech. in Nanotechnology	NT2107	**Green Manufacturing Technology**	2015-16
130.	M.Tech. in Cloud Computing	CC2006	**Managing Virtual Environments**	2015-16
131.	Master of Architecture	16AR7001	**Environmental Strategies**	2016-17
132.	Master of Architecture	16AR7005	**Sustainable development and technologies**	2016-17
133.	Master of Architecture	16AR7009	**Design studio – III - Environmental planning and Design**	2016-17
134.	Bachelor of Business Administration	UES14201	**Environmental studies**	2014-15
135.	Bachelor of Business Administration	UES15501	**Environmental Studies**	2015-16
136.	Master of Business Administration	MB 13AM06	**Sustainable Agriculture Management**	2013-14
137.	Master of Business Administration (Integrated)	UES14201	**Environmental studies**	2014-15

138.	Master of Business Administration (Integrated)	CDC15501	**Environmental Studies**	2015-16
139.	Master of Business Administration (Integrated)	MB15AM06	**Sustainable Agriculture Management**	2015-16
140.	MD in Community Medicine	MD151404	**Health Care Management and Public Health Administration including recent advances**	2015-16
141.	MPH in Health Management	PH14204	**Environmental Health and Sustainable Development**	2014-15
142.	B.Sc. in Biotechnology	BIO1263	**Environmental Biotechnology**	2012-13
143.	B.Sc. in Biotechnology	UBT14E01	**Environmental Biotechnology**	2014-15
144.	B.Sc. in Biotechnology	UBT15E05	**Environmental Biotechnology**	2015-16
145.	B.Sc. in Chemistry	EVSI241	**Environmental Studies**	2012-13
146.	B.Sc. in Chemistry	UCY14271	**Environmental Studies**	2014-15
147.	B.Sc. In Information Techonology	UGIT2308	**Environmental Science (Only Internal)**	2012-13
148.	B.Sc. in Film Tech	UES15201	**Environmental studies**	2015-16
149.	B.Sc. in Mathematics	EVS0202	**Environmental studies**	2012-13
150.	B.Sc. in Physics	UPY14E58	**Solar Technology**	2014-15
151.	B.Ed	TE15446T	**Environmental Education**	2015-16
152.	B.Ed	TE15446P	**Environmental Education**	2015-16
153.	M.Sc. in Econometrics	MSE1342	**Environmental Economics**	2013-14
154.	M.Sc. in Econometrics	PES14111	**Environment economics**	2014-15
155.	M.Sc. in Chemistry	PCY14E10	**Environmental Chemistry**	2014-15
156.	M.Sc. in Biotechnology	PBT12E1	**Environmental Biotechnology**	2012-13

157.	M.Sc. in Biotechnology	PBT14E04	**Environmental biotechnology**	2014-15
158.	M.Sc. in Biotechnology	PBT15E04	**Environmental biotechnology**	2015-16
159.	B.Com -LLB	ULC14601	**Environmental Law**	2014-15
160.	BA- LLB	ULA14601	**Environmental Law**	2014-15
161.	LLB(Hons)	ULL14503	**Environmental Law**	2014-15
162.	B.Sc. in Visual Communication	BVC1347	**Environment Science**	2013-14
163.	Ph.D	EN2101	**Industrial Waste Water Treatment**	2014-15
164.	Ph.D	CY856	**Environmental Chemistry**	2014-15
165.	Ph.D	MB922	**Global Transfer Pricing Environment**	2014-15
166.	Ph.D	MB921	**Sustainability Management**	2014-15
167.		CE1204	**Water Pollution and Its Management**	2013-14
168.		CE1205	**Global Warming and Climate Change**	2013-14
169.		CE1206	**Disaster Management and Mitigation**	2013-14
170.		CH1201	**Energy Engineering Technology and Management**	2013-14
171.		CH1202	**Renewable Energy Technology**	2013-14
172.		CH1203	**Industrial Pollution Prevention and Control**	2013-14
173.		EE1203	**Renewable Energy Resources**	2013-14
174.		MB1217	**Business Environment**	2013-14
175.		ME1225	**Renewable and Sustainable Energy**	2013-14
176.		NT1203	**Environmental Nanotechnology**	2013-14

Total number of courses/modules offered: 5581

S. No	Number of Courses	Implemented Year
1	5581	2016-17
2	5768	2015-16
3	5208	2014-15
4	4059	2013-14
5	3627	2012-13

COURSES OF STUDY

UNDER GRADUATEPROGRAMS	DEGREE
1. Aerospace Engineering	B.Tech.
2. Automobile Engineering	"
3. Biomedical Engineering	"
4. Biotechnology	"
5. Chemical Engineering	"
6. Civil Engineering	"
7. Computer Science & Engineering	"
8. Electronics & Communication Engineering	"
9. Electrical & Electronics Engineering	"
10. Electronics & Instrumentation Engineering	"
11. Genetic Engineering	"
12. Information Technology	"
13. Information & Telecommunication Engineering	"
14. Mechanical Engineering	"
15. Mechatronics	"
16. Nanotechnology	"

17.	Software Engineering	"
18.	Architecture	B.Arch.
19.	Interior Design	B.Des.

POST GRADUATEPROGRAMS	DEGREE
1. Automotive Hybrid Systems Engineering	M.Tech.
2. Big Data Analytics	"
3. Biomedical Engineering	"
4. Biotechnology	"
5. Chemical Engineering	"
6. Cloud Computing	"
7. Communication Systems	"
8. Computer Aided Design	M.Tech.
9. Computer Integrated Manufacturing	"
10. Computer Science & Engineering	"
11. Construction Engineering &Management	"
12. Embedded Systems Technology	"
13. Environmental Engineering	"
14. Electronics & Control Engineering	"
15. Food Nutritional Biotechnology	"
16. Food Safety& Quality Management	"
17. Genetic Engineering	"
18. Genome Informatics	"
19. Geotechnical Engineering	"
20. Information Technology	"
21. Information Security &Cyber Forensics	"
22. Internet of Things	"
23. Mobile and Pervasive Computing	"
24. Nanotechnology	"

25. Power Electronics & Drives	"
26. Power Systems	"
27. Remote Sensing & Geographics Information System	"
28. Renewable Energy & Photovoltaic Cells	"
29. Robotics	"
30. Software Defined Networking	"
31. Solar Energy	"
32. Structural Engineering	"
33. Telecommunication Networks	"
34. VLSI Design	"
35. Architectural Design	M.Arch.

MASTER OF SCIENCE PROGRAMS	**DEGREE**
1. Information Technology - Embedded Software Engineering(In collaboration with CMU, USA)	M.S.

DOCTORALPROGRAMS	**Ph.D.**
1. Engineering &Technology(Specialization Fields listed above)	"
2. Mathematics	"
3. Physics	"
4. Chemistry	"
5. English	"

PART TIME COURSES

DEGREE

1.	Civil Engineering	B.Tech.
2.	Computer Science & Engineering	"
3.	Electronics & Communication Engineering	"
4.	Electrical &Electronics Engineering	"
5.	Mechanical Engineering	"
6.	Construction Engineering &Management	M.Tech.
7.	Computer Integrated Manufacturing	"
8.	Computer Science& Engineering	"
9.	Computer Aided Design	"
10.	Embedded Systems Technology	"
11.	Energy Engineering	"
12.	Power Electronics & Drives	"
13.	Power systems	"
14.	Structural Engineering	"
15.	Architecture	M.Arch.

S. No	Research Categories	Funds (In INR: Lakhs)
1.	Infrastructure	4149.05
2.	Climate change and Energy	2621.98
3.	Waste	469.52
4.	Water	145.4
5.	Transport	191.22
6.	Health related Research	1031.25

	Total Lakhs (in INR)	**8608.42 LAKH**
	In US Dollar	**1,18,19,447.44**

List of Project Sanctioned in different categories

1. Infrastructure

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1.	Field demonstration of Geopolymerisation of Fly ash and GGSB in the manufacturing process of precast building products for construction of Utility Buildings	2018	105.19 DST- 38.69 SRM – 22.50 Industry- 44.00
2.	Pilot Plant Level Production of Eco-Friendly Geopolymer Building Products with Zero Portland Cement for Housing	2016	1.50
3.	Copper slag as alternative for river sand in concrete	2015	53.10
4.	SRM-DBT Partnership Platform for contemporary Research, Services and skill development in Advanced Life Science Technologies	2015	1583.53
5.	Development of High Temperature Resistant Geopolymeric Composites	2014	52.90
6.	Technical advice on corrosion of steel in soil around diaphragm walls of underground stations for CMRL, Chennai, India	2014	3.00
7.	Technical and scientific advisory project for the Development Centre for building materials	2014	4.00
8.	SRM Search Engine	2013	72.20
9.	Geo Ploymer concrete	2013	23.00
10.	DST-FIST Program	2012	150.00
11.	Evaluation studies on CORROSINO - Anti Corrosive cements.	2012	4.80
12.	Projects for Japanese Corporate R&D laboratories	2012	270.00
13.	Projects for Japanese Corporate R&D laboratories	2012	157.5
14.	Establishment of National facility for conducting clinical trails on Ayurveda, Siddha & Unani Products	2010	1252.44

15.	DST-FIST program	2010	60.00
16.	DST-FIST Program	2010	55.00
17.	SRM Nano Satellite Project	2009	120.00
18.	Development and properties of fly ash and bagasse ash based Geo Polymer concrete	2009	0.89
19.	DST-FIST Program	2009	130.00
20.	Equipping Laboratory	2008	50.00
TOTAL AMOUNT			**4149.05**

2. Climate change and Energy

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1	Ecological studies Kalpakkam coastal waters with special emphasis on phytoplankton, Zooplankton, Benthic organisms and Bacterial diversity	2018	23.97
2	Prototype of aqufous flexible Lithium Ion batteries employing nanomaterials of cathode and anode	2018	12.11
3	Low cost, Novel All-Solid-State Thin Film Lithium Ion Micro-Batteries for Energy Application	2018	38.90
4	Plasma processing for graphene and metal oxide functional layers in hybride solar cells	2017	05.00
5	Enhancing the charge transport in TIO2 photoanode architecture for high efficiency solar cell	2017	24.98
6	Development of highly efficient electrode materials for rechargeable Li-ion batteries within-situ monitoring of safety issues by embedded flexible Micr-sensor	2017	54.76
7	Development of layered conducting Ceramic Nanomaterials of MAX phase MXenes for energy conversion and storage applications	2017	53.84
8	Metallopolymer grafted Graphene based nanohybride materials for high performance bulk heterojunction polymer solar cells	2017	73.15
9	Fabrication of fuel- cell Li-ion batteries using advanced layers Ni-Zn-Mn cathode and Tin-Alloy based anode with coin cell and Pouch Cell configurations	2017	31.87
10	Studies upon modification of High Entropy alloy for thermal barrier coating applications	2017	52.21
11	Development of multicomponent AlCoFeNiX(X=Se,Cr and Zr) alloys for high temperature applications	2017	37.80
12	Innovative approach to energy savings in new and existing habitats: multilayer system for energy efficiency using phase change materials	2017	92.22

13	Pilot plant demonstration of Nitrate removed for provision of safe drinking water at domestic household and community level using Chitosan derivative	2016	31.78
14	Design of Noble Metal-free Electrocatalysts for Efficient Oxygen Reduction in Low Temperature Fuel Cells	2016	31.95
15	Design of Noble Metal-free Electrocatalysts for Efficient Oxygen Reduction in Low Temperature Fuel Cells	2016	34.26
16	Ball mill synthesis and large area deposition route for quaternary $Cu_2ZnSn(S,Se)_4$ solar cell absorber	2016	23.48
17	Development of Electrode materials for high Energy Density Lithium ion batteries and computational studies of solar Absorber layers	2016	1117.09
18	Solution processed CZTZ TiO2 hetero junction for solar energy conversion	2016	30.14
19	Investigation of physical and chemical characteristics of the Tropical Tropopause layer(TTL) in climate change perspective	2016	21.03
20	Exploring and Exploiting Novel Properties of High-Pressure Phase of Si for Fabrication of Low-cost, Light weight and High-efficiency Photo Voltaic Cells	2016	39.00
21	Design and Development of Solar light driven Graphene based mixed oxide photo catalysis for efficient production H2 Solar fuel	2015	41.08
22	Transition Metal dichalcogenide(MX2; M=Mo, W, V & X = S or Se) and carbon nanocomposites as an effective electrode material for Lithium-Ion batteries	2015	43.95
23	Low grsde waste heat to electricity - Thermocells	2015	49.13
24	Carbon Nanostructures based Hydrogen Storage System for Fuel Cells	2015	56.82
25	Dye-sensitized solar cells: Influence of systhesised pyridine and tetra ethylene Glycol derivatives in poly(vinylidene fluoride) blended with Poly(ethylene oxide) electrolyte and application in back contact dye-sensitized solar cells	2015	22.98
26	Identification and standardization of defect induced process for improving the Photovoltaic (PV) efficiency of Solar Grade Silicon	2015	22.00
27	Studies on moisture recycling and atmospheric residence times over India and its adjoining oceans	04.06.2015	22.46
28	Leveraging cloud exclusively owned by defense into military sensor network application	2015	9.61
29	Satellite Meteorology Cell	2015	140.00
30	Urbanization impact on hydrology of Pondicherry Region at micro-watershed level through integrated Geological and Geoinformatics studies	2014	15.85
31	Advanced materials for hydrogen release/storage on biomas-derivatives	2014	43.80

32	Systematic development of electrocatalysts for polymer electrolyte membrane fuel cells	2014	24.93
33	Polymer Graphite Nitride semiconductor nanomaterials for next generation Lithium Ion rechargeable batteries: Characterization, Device fabrication and testing	2014	23.95
34	Dioxigen reduction using low dimentional materials in the energy generation/storage device: first principle study	2014	14.04
35	Investigation and analysis of nonequilibrium quantum transport and magnetization dynamics in molecular nanoelectronic devices with optimized electrode topology	2013	39.00
36	Utilization of Microflora inhabiting termite gut for hydrolytic enzymes and their application in biofuel production	2013	23.70
37	Carbon Nanostructures based Hydrogen storage system for fuel cells	2013	53.03
38	Development of Energy Efficient Wireless Micro Sensor Network for Human/Vehicle intruder detection	2013	13.81
39	Fe-based Cooperative Pincer Complexes: An 'Ultimate Green' Paradigm to Sustainable Catalysis	2013	28.40
40	Electroactive Graphene- Metal (Oxide) Composites:Scalability for fuel and solar cell applications	2012	25.76
41	Satellite NDVI image analysis and its sensitivity to the agro climatic indices	2011	10.38
42	Investigation of Low Level Monsoon Inversion over Western Arabian sea from INSAT-3D observations	2011	10.00
43	Studies on characteristics of Aerosols	2010	43.88
44	Improved Satellite rainfall Estimation over India	2010	13.88
	Total		**2621.98**

3. Waste

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1.	Porous Flurinated Graphene Composites with Superhydrophobic-Superolephlic Properties toward Oil Recovery Prototypes and Oil Spill Clean-Up	2018	32.29
2.	Microbiome mediated fate and transformation of man released nano-pollutants	2018	46.73
3.	Developing Low-cast Air Filter for particles smaller than 2.5microm;Protect school children, Hospital from air pollution	2017	39.76

4.	Non Thermal Plasma-catalytic reactor for simultaneous removal of NO and VOCs(PCR-NOxVOC)	2017	37.67
5.	Pilot plant demonstration of Nitrate removed for provision of safe drinking water at domestic household and community level using Chitosan derivative	2016	31.78
6.	Bioavalability of Dioxin like Polychlorinsted Biphenyls, Dioxins and Furansreleased due to combustion of electronics waste in Chennai: Implications of Risk Assessment	2016	51.43
7.	Atmospheric emission and risk assessment of Polichlorinated Biphenyls, Dioxins and Furans during the electronic waste recycling in Chennai	2014	25.00
8.	Hyper Production of bioethanol from lignocellulosic waste : an anaerobic fermentation approach with recombinant Clotridium thermocellum ATCC 27405	2011	11.70
9.	Developing an integrated (Vertical & Horizontal flow) constructed wetland system for treating waste water from small community	2009	09.60
10.	Evaluation of vetiver for uptake and immobilization of uranium and residual radionuclides in mill tailings soil and post	2009	35.76
11.	Dietary Intakes of Naturally occurring Radio unclides like thorium, Uranium Polnium, Pottassium-40 in high Radiation background areas of Mama valakurichy, TN	2009	27.80
12.	Development of Nan filters for water purification and removable of VOC's from contaminated Air	2007	120.00
Total Amount			**469.52**

4. Water

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1.	Development of Indigenous sensor for salinity and temperature measurement suitable for Oceanographic applications	2017	26.26
2.	Design, development and testing of an optical transceiver for establishing under water optical wireless audio-video communication	2016	21.68

3.	Water quality studies of rivers and reservoirs / lakes using Hypersepectral remote sensing	2016	36.12
4.	Naturally occurring radio nuclides transfer factor (BCF) on aquatic flora and fauna in nagarajuna Sagar dam near Proposed uranium mining site	2009	50.42
5.	Uncertainty analysis of ground water problem using interval analysis	2009	10.92
TOTAL AMOUNT			**145.4**

5. Transport

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1.	Highly-Active, Durable Electro-catalyst for Inexpensive Iron-Air Rechargeable Battery for Electric Vehicles	2018	33.55
2.	NICOP - Conversion of Carbon dioxide to fuel Methanol (an input for Bio-diesel) over New Nanocatalysts - A Computational and Experimental study	2018	30.72
3.	Development of a road information modeling (RIM) based coordination method for utility relocation	2017	16.82
4.	Wireless optical signaling based inter-satellite tracking and monitoring for high data rate communication.	2017	26.08
5.	Design, Development and performance Investigations of wearable antennas for Body-centric Wireless Communication	2016	65.90
6.	Synthesis and Characterization of Microwave Materials based on Li_2O-MgO-SiO_2 doped with Zn, Ti, W for Space Applications	2016	18.15
Total Amount			**191.22**

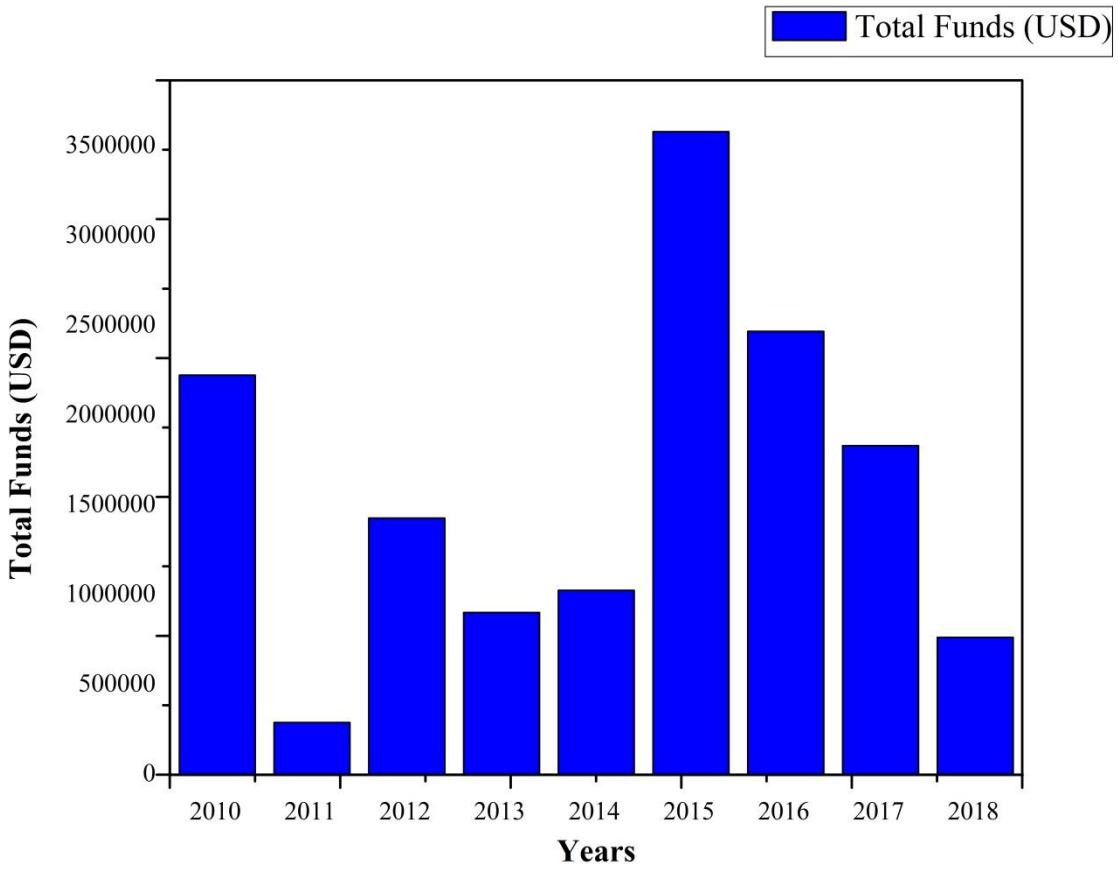
6. Health related Research

S. No	Title of the project	Year of Sanction	Sanctioned Amount (in Lakhs)
1.	In vitro and In vivo Role of Biocomposite Scaffolds for Bone Tissue Engineering	2013	20.00
2.	Discovery and biological evaluation of a new class of selective Janus Kinase 2 inhibitors	2013	21.00
3.	A Multi Model Early Warning System for Sudden Infant Death Syndrome (SIDS)	2013	3.8
4.	Gap analysis to assess barriers to adequate coverage of routine immunization among Health Care Providers and beneficiaries in high priority districts under call to action for improved child survival in Tamil Nadu for developing evidence based RI communication Strategies	2013	21.32
5.	Nuclear factor erythroid 2-related factor 2 (NRF2) activators on the survival of pancreatic islet graft in type 1 diabetic mice	2013	42.95
6.	Nicotine Induced Carcinoma	2013	35.00
7.	Concurrent production of acetone butanol and ethanol by inactivation of acidogenesis pathway in chlostridium acetobutylicum ATCC 824-a marker free approach	2013	22.00
8.	Oxidative Stress Induced Pre-matured Artheroselerosis	2013	22.70
9.	Comparison of lung developmental genetics among mouse strains with extremely divergent lung function	2013	40.60
10.	A cell based system for high throughput screening of Nrf2activators and its role in protecting pancreatic beta-cell apoptosis	2013	24.13
11.	Detection of SNP in SLC21A gene of type 2 diabetic patient undergoing metformin drug therapy in Indian population	2013	00.10
12.	A novel Hydrogel for bone tissue Engineering	2013	21.00
13.	Development of Lanthanide doped ferromagnetic nano-suspensions for effective hyperthermia treatment of deep tissue cancers	2012	19.00
14.	Tamilnadu Health System Tribal Research Project	2012	12.00
15.	Radical scavenging activity of Antioxidant Peptides from mantels of three Marine Cephalopods	2012	24.56

16.	Targeting Histamine H4 Receptor for the development of New Antihistamines	2012	28.90
17.	Molecular and proteomic identification of immune related genes in fresh water prawn Macrobrachium rosenbergii	2012	18.10
18.	Various activities related to Public Health	2012	24.09
19.	Study of 24X7 Primary health centers	2012	6.49
20.	Child Growth and use WHO Charts	2012	4.37
21.	Migrants Health	2012	10.82
22.	Isolation of the active compounds form the plant extracts that were identified to be effective against NDM1 positive bacteria	2012	44.88
23.	Epidemiological study disease burden among SC/ST population of TN and its Intervention by traditional medicine	2012	159.0
24.	Screening of environmental estrogens (EE2) using zebrafish brain aromatase gene (cyp19a1b) as a biomarker (RGYI)	2012	25.00
25.	Effect of erythropoietin on platelet amyloidogenic pathway and serum inflammatory molecules in patients with CKD: Biochemical and molecular study	2011	33.34
26.	Effectiveness of diet and lifestyle intervention through Information Education Communication (IEC) tools with Angan Wadi Centres (AWCs) as the centre of knowledge dissemination for hypertension (including hypercholesterolemia and diabetes) risk reduction – a cluster randomised controlled trial	2011	53.00
27.	A multi model early warning system fo sudden infant death syndrome (SIDS)	2011	03.50
28.	Tamilnadu Health System Tribal Research Project	2011	12.00
29.	A potential target gene for Breast Cancer Progression in-vivo	2010	23.00
30.	Regulation of mesenchymal stem cell towards osteogenetic cell lineage by micro RNAs	2010	24.00
31.	Physiological Significance of Noni Photochemical on the Neuro – Endocrine – Immune system	2010	10.00
32.	Situational analysis of the program to combat anemia in Krishnagiri, Dharmapuri and Selam Districts of Tamil Nadu	2010	09.75

33.	Evaluation of the smoke free Chennai mass media campaign	2010	03.00
34.	Epidemic and Pandemic preparedness response	2010	15.00
35.	Evidence Based advocacy strategy for revitalization of ICDS in Tamil Nadu – Phase II	2010	05.69
36.	Molecular Mechanism of neonatal sepsis	2010	45.66
37.	Role of Indoles and Triterpenes in experimental holder carcinogenesis	2010	13.42
38.	Neureendocrine – Immune interactions in mammary tumorigenesis	2009	40.25
39.	Identification of efflux protein inhibitors to gram negative organisms using bioinformatics tools and in vitro analysis and crystallographic studies of target membrane protein inhibitor complexes	2009	25.34
40.	Expression of Interest for External conducting global Adult Tobacco Survey (GATS-Indian), 2008	2009	25.05
41.	Modulation of Neural Immune Signaling by estrogen in reproductive aging	2008	37.44
Total Amount			**1031.25**

Total Research Fund: 14,88,91,902 USD



Number of events related to environment and sustainability

More than 20 events related to environmental sustainability will be conducted every year at SRM IST, The following details are given below:

BIODIVERSITY CONSERVATION

SRMIST strive to preserve and protect natural habitats and biodiversity on our campuses, creating new opportunities for wildlife on campus wherever possible. In addition to nurturing local habitats, our biodiversity work helps create a better environment for the university community, promoting staff and student wellbeing, and increasing enjoyment of our campuses.

WE AIM TO:

- The improve the biodiversity and preserve and protect the natural habitats in an around the campus.

HOW WE'RE ACHIEVING BIODIVERSITY CONSERVATION

The university takes great pride in its estates and makes the following actions to maintain and enhance its biodiversity:

- To preserve and improve existing valuable habitats;
- Identify specialist measures for vulnerable species.
- Erect interpretive signs by valuable habitats;
- Reduce the use of residual pesticides,
- Zero green waste policy;
- Stimulate natural habitats by leaving ‘eco-strips’ near streams and woodland edges.

SWACHH BHARAT ABHIYAN

Swachh Bharat Abhiyan is also called as the Clean India Mission or Clean India drive or Swachh Bharat Campaign. It is a national level campaign run by the Indian Government to cover all the backward statutory towns to make them clean. This campaign involves the construction of latrines, promoting sanitation programmes in the rural areas, cleaning streets, roads and changing the infrastructure of the country to lead the country ahead. SRMIST is keen in participating the Swachh Bharat Abhiyan program through the following initiatives.

SRMIST INITIATIVE FOR BIODIVERSITY CONSERVATION

1. Pond Renovation
2. Swachh Baharat program
3. Social responsibility–oil spill at the marina
4. National service scheme (NSS)

5. SRM environment club
6. SRM tree plantation drive
7. SRM lake cleanup (Keezhkattalai lake)
8. SRM Earth Day celebrations
9. SRM environmental day celebrations

POND RENOVATION

The Campus is divided by a water body namely Potheri Tangal (Chitteri) for an extent of 11.89 hec. The tank ceases to be an irrigation source and is maintained as a storage water body. The collector of Kancheepuram District has permitted the management to carry out the renovation of this tank. The tank has been deepened, strengthened and renovated for walkways, garden and lawns around the tank.

Figure.1: Pond renovation activities carried out by SRMIST Students

SWACHH BHARAT PROGRAM

India celebrating the 3rd anniversary of 'Swachh Bharat' where the higher educational institutions had to contribute and follow the policy 'Swatchhta Hi Seva' the NSS unit of SRM IST campus organized a cleaning drive in and around the campus, also they involved in cleaning the Municipal Park and streets.

Figure.2: Swachh Bharat Campaign by students of SRMIST

Figure.3: Potheri Railway Station Cleanup by students of SRMIST

Figure.4: Cleaning activity at Perungalathur lake by students

SOCIAL RESPONSIBILITY–OIL SPILL AT ENNORE

Two ships, the Dawn Kanchipuram and the BW Maple, collided off Ennore on January 28 causing an oil spill of 251.46 tonnes. More than 35 km of Chennai's coastline was affected by the oil spill, with Ernavoor as the 'epicentre'. Blobs of oil were found along the coastline of Puducherry and Devanampattinam too. MT Dawn Kanchipuram reportedly had 584.14 MT of bunker oil. More than 2,000 people, including volunteers, were engaged in the clean-up operations. In this regard, oil spills were cleaned my many volunteers including HIMT Students, Port Authorities and Local Fishermen's.

As a social responsibility SRM has conducted the health camp at Hindustan Institute of Maritime Training (HIMT), Vengampakkam, Kalpakkam, Tamil Nadu 603102 and the Local Fisherman who involved in the oil pollution cleanup. The entire study has been carried out by School of Public Health & Center for Environmental Nuclear Research, SRM University to study the health impact of the volunteers. Also to evaluate and compare the health risk of employees 50 employees from CPCL has be recruited to estimate the benzene exposure in low-level environment under strict adherence to industrial standards.

The levels of benzene if any in the blood and urine samples has been analyzed from the CPCL employees. This values of minimal exposure CPCL group will be compared with the

values of high exposure volunteers group involved in the Ennore coastal oil spill cleaning work. We have already collected the samples from this group. The studies was sponsored by SRM University.

Clean Up of Oil Spill at Marina

Clean Up of Oil Spill at Marina

Volunteers Involve in Oilspill Clean Up at Marina are undergoing Medical Check Up.

Volunteers Involve in Oilspill Clean Up at Marina are undergoing Medical Check Up.

Volunteers at CPCL for Blood & Urine Collection

Health Checkup camp at HIMT, Vengampakkam, Kalpakkam

Figure.5: Oil spill Cleanup and medical camp organized conducted by SRMIST

LITER OF LIGHT CAMPAIGN AT SRMIST

This campaign at SRMIST has aimed at lighting up the lives of people who lived in the rural parts of Chennai. A group of leaders were chosen and the team monitored two areas in the Guduvancherry. The team gave out a solar powered light to 15 residents of the aforementioned wards. The construction was basic and could easily be used by people of different age groups. It is through initiatives like these that we can help build the society. Being an integral part of a developing nation, it gives us immense happiness when we put a smile on the faces of those less fortunate.

Figure 6: Liter of light recipient residents

EARTH HOUR CELEBRATIONS AT SRMIST

Earth Hour is a worldwide movement organized by the Worldwide Fund for Nature (WWF). The event is held annually encouraging individuals, communities, households and businesses to turn off their non-essential lights for one hour, from 8:30 to 9:30 p.m. towards the end of March, as a symbol for their commitment to the planet. It was started as a lights-off event in Sydney, Australia, in 2007. Since then, it has grown to engage more than 7000 cities and towns worldwide. We love this planet. That's why each Earth Hour we make as noise as possible for action on climate change. We couldn't think of a better way of making ourselves heard than to host events and generally celebrate this amazing planet we call "home."

Figure 7: Earth hour celebrations at SRMIST

The celebrations begins: 8:30pm on 25 March of every year. This day, unlike any other day, we turned it off. We switched off every utility linked to electricity, not just to cut costs, but also to increase the longitivity of the environment. In one hour, we saved enough electricity to power the campus for a straight month, imagine what you could do just by saving. Imagine what such small steps build up to. They say that the amount of energy saved during this 1 hour could light up the world for generations to come. Here is to a world moving towards Sustainable Development Goals.

Figure 8: Candle lights burning to create awareness on earth hour celebrations

SRM ECO RUN

Grasping the need for living in a pristine environment at the grass root level, SRM organized an eco run on the morning of the Independence Day of India to make people aware about the importance of environment conservation. With the motto of 'Go Clean, Go green', the Aaruush team from SRM Institute of Science and Technology (formerly known as SRM University) organized the 5km long run as an attempt to break the Limca Book of Records for the "Biggest Eco Run" and observed around 1181 registrations.

Figure 9: Inauguration of Eco run at SRMIST

In order to encourage the crowd to contribute towards a clean and green environment, the Bring Your Own Bottle(BYOB) Campaign was also implemented in order to reduce plastic water bottle usage to minimal. This campaign ensured that no packaged plastic bottles were provided to the participants, hence spreading the motto. As part of the eco run the registered participants were also encouraged to sign a petition for "Switch to 100% Renewable Energy" with the aim to move towards an eco-friendly environment. The event noticed participation from not just the students but also from many faculty members of the University.

Figure 10: Students and Staff involved in Eco run Event

NATIONAL SERVICE SCHEME (NSS)

The NSS unit at SRM IST has more than 1000 registered students. Prof L.R Ganapathi Subramaniam, School of Mechanical Engineering, is the Program Co-ordinator. The NSS volunteers at SRM are involved in a broad spectrum of activities such as

- Social service–the community around the campus
- Cleaning the SRM IST campus
- Planting trees
- Conducting health camps in rural areas
- Organizing blood donation camps
- Advocacy on community health
- Creating AIDs awareness, helping NGOs to raise sponsorship and funds
- Working with tsunami victims in rehabilitation etc.

The NSS unit also adopts government schools in Chengelpet district and works closely with the school authorities and students.

SRM ENVIRONMENT CLUB

SRM Environment Club (SEC), has actively strived toward saving the deteriorating environment, within and outside the campus of SRM IST. We invite people from all spheres to put in their innovative minds, to protect our environment and make it a better place to live and laugh out without any fear.

Figure 11: Environmental Club at SRM IST

Figure 12: Campus Clean Up Drive by SEC

SRM TREE PLANTATION DRIVE

Figure 14: Tree Plantation drive by SEC at SRMIST

Tree plantation drive by SEC on 5th Nov, 2016 at Shivananda Rajaram senior secondary school, Maraimalainagar. Totally 101 plants has been planted and regularly maintained by students of SEC, SRMIST.

LAKE CLEANUP (KEEZHKATTALAI LAKE)

Figure 13: Keezhkattalai lake clean drive

As a part of NCC activities students of SRMIST has involved in the cleaning and renovation of the Keezhkattalai lake. Every year the lakes and ponds near SRM are renovated and cleaned.

SRM EARTH DAY CELEBRATIONS

The 22nd of April has been marked as an Earth Day to make the human race aware of the importance of their planet. The people celebrate world Earth Day every year as an annual event all across the world in order to increase the awareness among people about

the environmental safety as well as to demonstrate the environmental protection measures.

Figure 15: Earth day Celebrations at SRMIST

In this 45th year of Earth Day celebration students of SRM IHM under the support of Director Principal & Vice Principal Chef Ramesh took the initiative of planting new trees inside the premises of SRM IST & beautifying it. Mr B Sridhar (Asst Revenue Manager, Radisson Blu Hotel Chennai) was invited to grace the occasion. As this year's Earth Day theme states ' it's our turn to lead ' the students wanted to raise awareness about the importance of planting trees & the effects of deforestation on our planet.

SRM ENVIRONMENTAL DAY CELEBRATIONS

India is the global host of 2018 World Environment Day, which will take place on June 5, 2018. With "Beat Plastic Pollution" as the theme for this year's edition, the world is coming together to combat single-use plastic pollution. Every year SRMIST is celebrating the environmental day for a week-long (May 30th to June 5th).

Walkathon cum Environment Audit

(May 30th)

Tree Plantation at Mamandoor

(May 31st)

Stop Plastic Campaign

(June 1st)

Ground Level Awareness for Plastic Pollution at Besant Nagar Beach (June 3rd)

Plastic Pollution awareness to School Children through drawing, Essay and oratorical competitions (June 4th)

Installation of Air Quality Monitor & Clock Tower Inauguration

Figure 16: Environmental Day Celebrations

AWARENESS WORKSHOP ON ENVIRONMENTAL SUSTAINABILITY

One-day Awareness Workshop on Environmental Sustainability has been planned and organized in association with Go the Institute Chennai on the eve of World Ozone Day held at SRM Institute of Science and Technology (formerly known as SRM University), Kattankulathur, Chennai, on 20th of September 2016. Several technical talks on numerous topics by very well renowned persons were arranged around 75 student's participants were

selected to attend this workshop out of 500 applications received. Mostly from nearby Schools, Polytechnic and Engineering colleges were selected. The event started off with the auspicious lamp lightening ceremony by our honorable chief guest Dr. J. Daniel Chellappa, [Senior scientist (TCW), BARC, Government of India and Technical Coordinator, Central Expert Group on Kudankulam Nuclear Power Project (KKNPP), Government of India, Chennai and he delivered the inaugural address and stressed upon the need of this kind of awareness workshops.

Figure 17: Awareness Workshop on Environmental Sustainability

INDIAN BIODIVERSITY CONGRESS (IBC)

SRMIST has organized the Indian biodiversity Congress from 18-20th Dec 2014, focal theme of the seminar was "Biodiversity for Poverty Eradication. Dr. K Rosaiah, the honorable Governor of Tamil Nadu, Dr. Nanditha Krishna, Director, CPR Environmental Education Centre, Chennai, and Dr. G. G. Gangadharan, President, CISSA has ingaurated and addressed the gatherings.

Indian Biodiversity Congress (IBC) is the largest conglomeration of scientists, conservationists, environmentalists, civil society groups and local communities in India, a platform to discuss the current status of biodiversity in India and an inclusive colloquium to forward strategies and policies to conserve the rich biodiversity heritage of the country. The

major objective of IBC is to formulate a vision and alternate strategic plan for the conservation of biodiversity in the context of prevailing concept of “development at any cost”.

Figure 18: Indian Biodiversity Congress Inauguration

SRMIST threw light on the strong research framework of the University which deals with tribal health, maternal and child health and the like. Dr. K Rosaiah, the honorable Governor of Tamil Nadu in his inaugral speech, pointed out that such platforms should not only be for the exchange of experiences and expertise, but also help in framing of feasible strategies and formulation of plans for conservation and sustainability of the biological diversity across the globe. It is high time to create and inculcate the massive level awareness among the masses.

SRMIST SUSTAINABILITY RESEARCH CENTER

SRM will set up Centre’s of Excellence (COE) in areas which address critical issues and cuts across multiple disciplines. Center for Environment and sustainability will be established. This center goal is to take an inter-disciplinary approach to the analysis of sustainable systems, integrating strong, engineering-based approaches with insights from the

social sciences to develop action-oriented, policy-relevant responses to long-term environmental and social issues.

Figure 19: Centre's of Excellence (COE) in SRMIST

This will aims to develop the next generation of environment and sustainability leaders and to improve the quality of research publications by investing in faculty development, increasing the number of post graduate and doctorate students and extensively building a network of partnerships with leading local and global institutions. SRM IST is well positioned to address such challenges given its presence across the various disciplines. Also the work done in the CoEs also address most of the Sustainable Development Goals such as Quality Education, Good Health, No Hunger, Affordable and Clean Energy, Sustainable Cities and Communities, Climate Action, Peace, Justice and Social Institutions

Figure 20: Indian Mission and Sustainable development goals

SRM IST will setup Centre's of Excellence to focus on research areas that are of national importance and which will need collaboration from multiple disciplines. The CoE's that will setup will be a combination of existing CoEs being transformed to make it more holistic and new CoEs in emerging areas of research.

The center will accomplish this goal through research, teaching, training, public outreach, and much more. The center will become one of the best places to conduct or sponsor research in environmental sustainability because it brings together some of the best researchers and environmental research institutions in the world to tackle problems in environmental sustainability. Center's Mission is to achieve environmental sustainability in our lifetimes through research and education, and we can do this if we join together to build and sustain the robust environment needed to secure a bright and bold future for life on Earth.

Tree plantation at Kancheepuram

Totally 35 NSS volunteers along with APJ (A Planting Journey) went to Kancheepuram and some villages and planted around 150 saplings on 5th August 2015.

AIDS awareness

On the day of youth day on 12th August 2015 around 1500 NSS volunteers made a red ribbon symbol and taken oath about the awareness of AIDS. Kancheepuram district Tamil Nadu AIDS Control Society also taken part of it.

Potheri station cleanup

Potheri station is been cleaned with the help of 40 volunteers on September 5th 2015. All the plastics and garbage been cleared from station and also from tracks.

Road safety awareness

A human chain organized with the help of 150 NSS volunteers in NH 45 GST road and created awareness about road accidents on 8th September 2015.

Blood donation camp

Our NSS unit and SRM blood bank organized a blood donation camp on September 5th 2015. 120 units of blood collected and given to the SRM medical college and hospital.

Tree plantation at Maraimalai nagar

On Febraury 25th along with Green Nest a tree plantation program organized at maraimalai nagar. Around 250 saplings planted around the residential areas of maraimalai nagar.


Helmet awareness

On 9th march 2016 helmet awareness campaign in and around the campus along with 30 royal enfield riders. The theme of the event is to make everyone to wear helmet.

Go Green use bicycle

On 18th march 2016 Go green cycle rally has been organized in and around the campus along with 50 cycle riders. The theme of the event is to make everyone to use bicycle.

Trash mob at Central railway station

Along with Green Nest a Trash mob has organized creating awareness about keep environment clean. A dance, speech in all language and talk to people has conducted on 20th March 2016.

Potheri station clean-up 2

In continue with cleaning the garbage and Swatch Bharath NSS volunteers has cleaned the station and collected the garbage from potheri station and tracks.

Blood donation camp 2

A Blood donation camp is organized along with SRM blood bank and Lions club Guduvanchery on 9th April 2016. Around 200 donors donated blood.

The SRMIST prides itself on the work it has done so far in meeting our sustainability responsibilities targets. This first Annual sustainability Report illustrates the excellent work our staff and students have delivered in helping us maintain our leading role in the sector. This sustainability report provides an insight into the sustainability policy and results of SRMIST sustainability initiatives for the period 2012 to June 2018. We have made significant progress in fully integrating sustainability into our SRMIST. We achieved our interim targets for the first five-year period. Now, we have defined our goals and ambitions for the target year 2022.

We aim for an overall efficiency improvement of performance in all our targets as compared to 2012. Our approach to sustainability continued to evolve in the following years, becoming more systematic and addressing an increasing number of environmental and social challenges along our value chain. SRMIST will continue to work on innovation and improvement directed to a healthy population and a healthy living environment using research, advice, and addressing implementation in 2015. Because we are committed to health and sustainability.

About Sustainability

The SRMIST is committed to maximizing its positive impact and minimizing its negative environmental impact to help develop a more sustainable world. SRMIST have a healthy approach to sustainability, incorporating social economic and environmental principles that have been in place for nearly a decade. SRMIST has short and long-term objectives for sustainability.

Our Policy

- Embed sustainability into the campus, curriculum, community, and culture of the university through the establishment of good leadership and management practices.
- Raise sustainability and environmental awareness and promote sound environmentally and ethically responsible behaviors in all staff and students.
- Develop and maintain the Estate, and the surrounding landscape, with due regard to environmental impact and social value.
- Develop and implement effective and efficient utility and procurement management measures, policies and procedures.
- Develop and implement waste management practices that prioritize disposal in line with the waste hierarchy to reduce the institutions waste output to landfill. Read more

Our Team

The SMB is the group responsible for the development and reporting of the sustainability strategy and key actions of the university. Our SMB has responsibilities to help develop and implement our strategy and to help achieve our goals. The SMB has developed a framework that helps those with responsibility for delivering sustainability for better understanding how sustainability relates to their areas and others, the policies of the university, appropriate laws and reporting requirements and helps set benchmarks, targets and actions for improvements. **Management Board**

Our Initiatives

1. Biodiversity
   or
http://www.srmuniv.ac.in/sites/default/files/2018/biodiversity.pdf

2. Carbon Mitigation
   or
http://www.srmuniv.ac.in/sites/default/files/2018/carbon-mitigation.pdf

3. Solid Waste Management
   or
http://www.srmuniv.ac.in/sites/default/files/2018/solid-waste-management.pdf

4. Travel and Transport
   or
http://www.srmuniv.ac.in/sites/default/files/2018/travel-transport.pdf

5. Water Management
   or
http://www.srmuniv.ac.in/sites/default/files/2018/water-management.pdf

SRM

INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be **University** *u/s 3 of UGC Act, 1956)*