

# Annual Report 2020-21

## 1. Details of the College

- Name and Address of the College: Saraswati College of Engineering  
Plot No. 46, Sector 5  
Near MSEB Sub Station,  
Kharghar,  
Navi Mumbai 410210
- Year of Establishment: : 2004
- Telephone and & Fax Number : Telephone: (022) 27743707, 27743708 / Fax: (022) 27743712.
- Email : principal.scoe@gmail.com,  
registrarsaraswati@gmail.com
- Vision /Mission of the College:  
Vision: "To become center of Excellence in Engineering education and research"  
Mission: "To educate students to become quality technocrats for taking up challenges in all facets of life"

## 2. Achievements in brief

1. In "Times Engineering Institute Ranking Survey 2020", SCOE secured 107th position in Top Engineering Institute in India, survey conducted by Times of India.

### **3. Contemporary Add-On Courses/ Technical Events for The Advancement Of Education**

#### **International/ National Conference Organized**

<b>Title</b>	<b>Date from</b>	<b>Date to</b>	<b>Resource Person Name</b>	<b>Resource Person Designation</b>	<b>Resource Person Org</b>
International Conference on Industry 4.0 - Advances in Engineering and Sustainability for the 'Make in India' initiative (ICAESM 2021)	5/7/2021	5/7/2021	Prof.(Dr.) Iyyanki. V. Muralikrishna	Professor and Director [R&D]	JN Technological University, Hyderabad
International Conference on Industry 4.0 – Advanced Information and Communication Technologies (ICAICT 2021)	5/7/2021	5/7/2021	Prof.(Dr.) Iyyanki. V. Muralikrishna	Professor and Director [R&D]	JN Technological University, Hyderabad

#### **Technical Competition**

<b>Title</b>	<b>Type of event</b>	<b>Date from</b>	<b>Date to</b>	<b>Resource Person Name</b>	<b>Resource Person Designation</b>	<b>Resource Person Org</b>
Contrivance-2020	Project Competition	12/8/2020	12/8/2020	Prof. Vaishali Jadhav, Prof. Sujata Bhairnallykar, Prof. Diksha Kumar	Faculty	Saraswati College of Engineering
Techno Trivia "Technical quiz competition"	Technical Competition	10/10/2020	10/10/2020	Bhavin Kale	MESA Coordinator	Saraswati College of Engineering

#### **Technical Seminar/ Guest Lecture**

<b>Title</b>	<b>Type of event</b>	<b>Date from</b>	<b>Date to</b>	<b>Resource Person Name</b>	<b>Resource Person Designation</b>	<b>Resource Person Org</b>
Awareness of certification	SEMINAR	1/20/2021	1/20/2021	Manish Singh	Technical	ATS
Seminar on Campus Placement Preparation	SEMINAR	2/5/2021	2/5/2021	Prof. Vaishali Jadhav	Associate professor	Saraswati College of Engineering
Seminar on machine learning	Seminar	1/12/2020	1/12/2020	Mr Pankaj Pawar	Business Analyst	Freelancer

## Industry/ Site Visit

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
ZECO Aircon Limited & Kruger Ventilation Industries (India) PVT LTD	INDUSTRIAL VISIT	2/8/2021	2/8/2021	R N Josh	Director	ARRK CONSULTING
Airvision Technologies PVT LTD Vasai	INDUSTRIAL VISIT	2/17/2021	2/17/2021	Prof. Sagar Kadu	Assistant Professor	Saraswati College of Engineering
Industrial visit to HAl and BHEL	INDUSTRIAL VISIT	8/1/2020	12/1/2020	Prof Shirish kulkarni	Asst. Professor	Saraswati College Of Engineering & Datta Meghe College of Engineering.
IWT Site Visit at CETP	SITE VISIT	2/4/2020	2/4/2020	R. S Diwakar	General Manager	CETP (thane-Belapur Association)
BMCT Site Visit at Prion Johnson RMC Ltd, Maphe	SITE VISIT	3/2/2020	3/2/2020	Mr. Girish Joshi	Sr. Manager	Prison Johnson RMC Ltd
Site Visit at STP (Seawoods)	SITE VISIT	2/6/2020	2/6/2020	Mr. Rajesh	Plant Supervisor	STP (seawoods)
Industrial visit to HAl and BHEL	Industrial Visit	8/1/2020	12/1/2020	Prof Shirish kulkarni	Asst. Professor	Saraswati College Of Engineering & Datta Meghe College of Engineering.
BMCT Site Visit at Prion Johnson RMC Ltd, Maphe	Site Visit	3/2/2020	3/2/2020	Mr. Girish Joshi	Sr. Manager	Prison Johnson RMC Ltd
Site Visit at STP (Seawoods)	Site Visit	2/6/2020	2/6/2020	Mr. Rajesh	Plant Supervisor	STP (seawoods)
IWT Site Visit at CETP	Site Visit	2/4/2020	2/4/2020	R. S Diwakar	General Manager	CETP (thane-Belapur Association)

## Workshop/ FDP

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
Online Test series for Capgemini	TRAINING	6/28/2021	7/21/2021	Ms Kirti Pawar / Ms Sonali Sukla/ Ms Vrushali Thakur/ Mr Umesh Pinjarkar/ Ms Hemlata Gosavi	Assistant Professor	Saraswati College of Engineering
Hands on workshop on Python	TRAINING	6/21/2021	6/26/2021	Ms Kirti Pawar / Ms Sonali Sukla	Assistant Professor	Saraswati College of Engineering
Hands on workshop on Python	TRAINING	6/14/2021	6/19/2021	Ms Kirti Pawar / Ms Sonali Sukla	Assistant Professor	Saraswati College of Engineering

Online Test series for placement practice session	TRAINING	6/14/2021	6/26/2021	Ms Kirti Pawar / Ms Sonali Sukla/ Ms Vrushali Thakur/ Mr Umesh Pinjarkar/ Ms Hemlata Gosavi	Assistant Professor	Saraswati College of Engineering
Webinar on Developing Covid-19 Tracker App using Python and StreamLit	WEBINAR	6/9/2021	6/9/2021	Mr. Parth Sharma	Developer	AI Probably Ecademy Pvt Ltd
Software Training Program on BIM REVIT ESSENTIAL	TRAINING	6/1/2021	6/5/2021	Prof. Aakash Vichare	Authorized Autodesk Trainer	APSIT
Webinar on Placement Preparation	WEBINAR	3/30/2021	3/30/2021	Mr. Aniket Kangane	Vice President	ACE Committee
Civil Engineering & Infrastructure Development Webinar	WEBINAR	3/22/2021	3/22/2021	Dr. Ajaykumar R. Kambekar	Chairman PG Programmes	Former Dean Academics and Head CED Bhartiya Vidya Bhavans
Study abroad Counselling	WEBINAR	3/22/2021	3/22/2021	Dr. Richard Cross	Counselor	De Montfort University Pisa Italy
IEEE Paper Writing Webinar	WEBINAR	3/15/2021	3/15/2021	Hemant Sarje	Associate Professor	Saraswati college of engineering
Aptitude Training	TRAINING	3/1/2021	3/19/2021	Mr Anand Rao	Aptitude Trainers	Perfectice Eduventure Pvt Ltd.
Webinar on Industrial waste water treatment: Challenges and solution	WEBINAR	2/25/2021	2/25/2021	Ramesh B. Bambale	T.V.Ramachandra	Hon. Joint Secretary General
Webinar on Money Management	WEBINAR	2/12/2021	2/12/2021	Mr. Sagar Chaube	NA	Chaube Educational trust
OE&M Expert Talk	WEBINAR	2/11/2021	2/11/2021	Mr.Girish rakhonde	CEO	CNSES GLOBAL
Money Management Webinar	WEBINAR	2/5/2021	2/5/2021	Sagar Chaubale	Founder	Chaube Chariable Trust
Two Week JAVA Training	TRAINING	2/5/2021	2/27/2021	Ms Kirti Pawar / Ms Sonali Sukla	Assistant Professor	Saraswati College of Engineering
Webinar on Data Science Career & Job Prospects	WEBINAR	12/24/2020	12/24/2020	Mr. Amit Naik	Regional Manager	Itvedant Education Pvt. Ltd
Webinar Associate Full Stack Developer	WEBINAR	11/12/2020	11/12/2020	Mr. Arnab Chakraborty	trainer	Veloces Consulting Services
Webinar on Full Stack Development	WEBINAR	11/12/2020	11/12/2020	Prof. Arnab Chakraborty	NA	Cognitio Knowledge Tech Pvt Ltd
Webinar Ethical Hacking	WEBINAR	11/11/2020	11/11/2020	Mr. Manish Singh	engineer	microsoft
Webinar on Ethical Hacking	WEBINAR	11/11/2020	11/11/2020	Mr. Mohnish Singh	NA	Cognitio Knowledge Tech

						Pvt Ltd
Session on Verbal ability-to crack TCS ninja	TRAINING	9/30/2020	10/8/2020	Prof Sima Singh	Assistant Professor	Saraswati College of Engineering
HR-MOCK for Cap-Geminai	TRAINING	9/8/2020	9/8/2020	Prof Sima Singh	Assistant Professor	Saraswati College of Engineering
Webinar on Cloud Computing	WEBINAR	9/7/2020	9/7/2020	Mr Ramesh Kharat	chief technology officer and corporate trainer	Priar Technoworld
National level seminar on LTE and 5G Protocol Stack Testing	WEBINAR	8/29/2020	8/29/2020	Mr. Virender Solanki, Mrs. Priyanka, Mr. Samdhan Jadhav and Mr. Sagar	Speakers	Technopark Business Solution Pvt. Ltd, Navi Mumbai
Online Webinar on Final Year Project Topics & Job Placements	WEBINAR	8/12/2020	8/12/2020	Rohan Anil Patil	RPA Developer	Mindcraft Software Pvt Ltd
Study abroad counselling Maitri study abroad Italy	WEBINAR	8/10/2020	8/10/2020	George Syriac	Counselor	Maitri study abroad Italy
ISHRAE Student Chapter SCOE Orientation Ceremony	ORIENTATION	8/8/2020	8/8/2020	R. N. Joshi	Director	ARRK CONSULTING
63rd IIRS Outreach Programme on Remote Sensing applications in Agricultural Water Management	TRAINING	8/3/2020	8/7/2020	Dr. N. R Patel, Mr. Abhishek Danodia	Course Faculty	IIRS
Hands on workshop on Python	ADD-ON	7/20/2020	7/31/2020	Prof. Kirti Pawar	Assistant Professor	Saraswati College of Engineering
Webinar on Cloud Computing	WEBINAR	7/9/2020	7/9/2020	Mr Ramesh Kharat	Chief technology officer and corporate trainer	Priar Technoworld
Webinar cloud computing	WEBINAR	7/8/2020	7/9/2020	Mr. Ramesh Kharat	Engineer	Priar Technoworld
Online Test Series a Placement Activity	TRAINING	7/6/2020	7/31/2020	Prof. Sima Singh /Prof Navdeep Bagga/Prof. Arpita Saxsena/Rajashree Narawade	Assistant Professor	Saraswati College of Engineering

#### 4. Patents

Sr.No	Design Number/Patent number/Application number	Title	Author/Members	Date of filing
1	202121001389	Multipurpose Seed Sowing Machine	Prof. MB Sorte Prof. Pramod Deshmukh, Sagar Jagtap, Komal Guldagade, Siddhesh Bhobekar, Soumitra Pal	12/1/2021
2	202021054822	Design & Fabrication of advanced mine detecting and neutralizing robot	Prof Sunil Jankar, Prof. MB Sorte, Ameya Mallya, Prathmesh Tambe, Mony Suradakar, Chinmay Mohanty	17/12/2020
3	202021051673	Method to identify hypertension & cardiovascular diseases by analyzing blood flow patterns using ANN	Dr.Manjusha Deshmukh, Prof.Monali Deshmukh	27/11/2020
4	202021051684	A trust worthy system based on Blockchain and Artificial Intelligence for farmers empowerment	Dr.Manjusha Deshmukh, Prof.Vaishali Jadhav, Prof.Diksha Kumar, Prof. Maahi Khemchandani, Prof. Ragini Sharma	27/11/2020
5	202021047157	Fuel burner	Prof. PD Ingle, Prof.T.Z.Quazi, Prof.Amit Patil, Prof.Siddhesh Lad, Prof. Vishnudas Chodankar	11/11/2020
6	202021046901	Water Cleaning Robot	Prof.Nilesh Patil, Dr.Sheetal Bukkawar, Dr.Manjusha Deshmukh, Prof.Sarita Kale	27/10/2020
7	202021045947	Pothole repairing Machine using waste plastic in mixes	Prof.Amit Patil, Prof.T.Z.Quazi, Prof.PD Ingle, Prof.Siddhesh Lad, Prof. Vishnudas Chodankar	21/10/2020
8	202021034358	Compact J-shaped fractal antenna for UWB application	Dr. Sheetal Bukkawar	8/11/2020
9	202021038639	Categorization of Plant Leaf Using Deep Learning Techniques	Prof. Suhasini Parvatikar	9/7/2020
10	332817-001	Custard Apple deseeding Machine	Dr. Madan Jagtap	9/5/2020
11	202021033064	Solar Distiller	Dr. Madan Jagtap	8/1/2020
12	202021035420	Aquatic animal friendly ocean cleaning system	Dr.Manjusha Deshmukh, Prof.Vaishali Jadhav, Prof. Diksha Kumar, Prof.Maahi Khemchandani, Prof.Ragini Sharma, Prof.Prasanna Raut	8/17/2020

13	202021037027	Moisture Sensor based Automatic Irrigation system	Prof.Roshni John, Prof.Sujaya Wadekar	8/27/2020
14	202021031644	Smart bins and their monitoring with signal at workstations	Prof.Suhasini Parvatikar, Prof.Sujata Bhairnallykar, Prof.Monali Deshmukh, Prof.Rina Bora	7/24/2020

## **5. Introducing Online Courses**

Faculty uses open courseware from national and international universities like IIT, MIT (USA). Virtual laboratories, e-learning resources from National Programme on Technology Enhanced Learning (NPTEL), open educational resources, mobile education etc

## **6. Students Clubs and Committees Formed To Inculcate Leadership Quality in Students**

Institute insists upon inculcating moral, ethical and social values in students to develop them as responsible citizen of India. Various committees involving students and faculties are active in the college. Following are the students clubs and committees formed to inculcate leadership quality in students.

### **Group A : National and International**

- CSI – Computer Society of India
- ISHRAE- Indian Society of Heating Refrigerating and Air Conditioning
- SAE - Society of Automotive Engineers
- IETE - Institution of Electronics and Telecommunication Engineers
- ISTE - Indian Society for Technical Education
- IWWA- Indian Water Works Association
- IGBC- Indian Green Building Council.

### **Group B : College level cultural /technical clubs**

- Student Council
- Team Prahar Racing
- Placement team
- EN Cell
- Music Club
- Dance Club
- Sports Club
- Fashion Club

### **Group C : College level social clubs**

- National Service Scheme(NSS)
- Rotract Club

### **Group D : Department level associations**

- ACE - Association of Computer Engineers
- CESA – Civil Engineering Student Association
- ETSA - Electronics and Telecommunication Students Association
- RACE – Reliable Automotive Council of Engineers
- SAIT - Student Association For Information Technology
- MESA - Mechanical Engineering Students Association

## **Entrepreneur Network Cell Activities**

An Entrepreneur network Cell (ENC) is formed in the Institution, to expose the students to the field of entrepreneurship .The Entrepreneurship network Cell aims at reaping and nurturing innovativeness



and encouraging entrepreneurial culture among students. The Entrepreneurship network Cell is primarily responsible for stimulating, sustaining and supporting entrepreneurial ventures within the campus, providing them with necessary assistance and resources.

## **7. Social Activities**

<b>Title</b>	<b>Organized By</b>	<b>Date</b>
Importance of skill & Entrepreneurship program towards better livelihood	NSS	6/30/2020
Anti-Drug Awareness Competition	NSS	6/26/2020
International Widows Day	NSS	6/23/2020
Heartfulness meditation workshop	NSS	06/22/2020 to 06/24/2020
Webinar on yoga for emotional balance	NSS	6/21/2020
Yoga Day	NSS	6/19/2020
World Enviromental Day Quiz	NSS	6/5/2020
Orientation Program for HRM	FE	1/15/2020
Social Visit	FE	1/9/2020
Garbha Festival	Student Council	10/10/2019
BLOOD DONATION	MECH	10/10/2019
PTM	FE	10/4/2019
Freshers Party	Student Council	9/28/2019
Teachers Day 2018	Student Council	9/5/2019
Deepotsav Festival	Student Council	9/5/2019
TEACHER'S DAY	MECH	9/5/2019
ganpati festival	Student Council	9/2/2019
sanitary pads awareness and women in defence	Student Council	8/28/2019
sports activity	FE	8/27/2019
GURU PURNIMA	MECH	8/27/2019
MESA INAUGRATION	MECH	8/19/2019
Independent day	Student Council	8/15/2019
skill development	FE	8/14/2019
Culture activity	FE	8/13/2019
Generation of Funds for Sangali and Kolhapur Flood Relif	Student Council	8/13/2019
motivational session	FE	8/9/2019
52nd Youth Fest of Mumbai University	Student Council	8/7/2019
Academic process	FE	8/6/2019
Value Education	FE	8/6/2019

<b>Title</b>	<b>Organized By</b>	<b>Date</b>
Promotion of Helmet.	Student Council	8/5/2019
Visiting and conducting cultural activity for Prerna Orphanage	MECH	8/3/2019
zumba dance workshop	FE	8/1/2019
Voter Awareness Seminar	CIVIL1	7/22/2019
Tree Plantation	EXTC	7/19/2019
Entrepreneurship Awareness Bootcamp	CIVIL	7/15/2019
Guest lecture on Women empowerment	MECH	7/3/2019
Kerala Relief Fund Campaign	NSS	5/31/2019
Workshop on Personality Development	FE	5/7/2019
Farewell 2018-19	CIVIL	5/3/2019
Farewell for 2019 pass out students	MECH	4/26/2019
Farewell 2019	CS	4/18/2019
Farewell	EXTC	4/17/2019
Alumni Meet	EXTC	4/7/2019
Holi Celebration 2019	Student Council	3/20/2019
Women's Day 2019	Student Council	3/8/2019
Scribble it down	CIVIL	3/1/2019
BLOOD DONATION CAMP	NSS	3/1/2019
Nakshatra	CIVIL	2/28/2019
Alumni meet	CIVIL	2/26/2019
Women's Day Celebration	FE	2/22/2019
Nakshtra 2019	Student Council	2/22/2019
Drawing Competition	FE	2/21/2019
Debate Competition	FE	2/21/2019
Debate Competition	FE	2/21/2019
international yoga day	YIN	2/21/2019
Poster Making Activity	FE	2/18/2019
blind coding	IT	2/17/2019
Rally for Road Safety at Panvel	NSS	2/12/2019
Utsav 2019	CS	2/11/2019
Urban Safari	NSS	2/11/2019
PTM - Parent Teacher Meeting	CIVIL	2/8/2019
Donation to the orphanage	NSS	2/8/2019
RFP Ride for Pride	Student Council	2/8/2019
Poetry Competition	FE	2/7/2019
Poetry Competition	FE	2/7/2019
Poetry Competition	FE	2/7/2019
Poetry Competition	FE	2/7/2019

### **8. Benefices Provided To Economically Under Privileged Students In The College.**

- Book bank schemes are available for economically weak students.
- The institution helps to receive scholarship to SC/ST, OBC and economically weaker students from Government of Maharashtra/DTE/Samajkalian office/Adivasivikaskaryala as per the policies.

## **9. Sewage Treatment Plant (STP)**



Sewage Treatment Plant of 1,00,000 lit per day filtration capacity

## **10. Rainwater Harvesting**



Rainwater harvesting tank

Capacity of Rainwater harvesting is 50,000 liters