

Annual Report 2019-20

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. College has been felicitated with Certificate of Appreciation by Indian Water Work Association (IWWA) at 52nd Annual Convention 2020 organized at NIT Patna on 10th and 12th January 2020.
2. College has won “Best Institute of the year” under sub category “Innovative pedagogical approaches and tools” by Computer Society of India held in September 2019.

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

International/ National Conference Organized

Title	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
International conference on Industry 4.0 [ICI 4.0]	3/27/2020	3/27/2020	Ludmila S. Ruzhanskaya	Head of Department, Professor	Ural Federal University, Russia

Technical Competition

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
Internal Hackathon for SIH 2020	Project Competition	1/31/2020	1/31/2020	Mr. Vikash Sharma, Prof. Sheetal Bukkavar	Engineer, Dean Administration	Blockchain Edutech Pvt.Ltd, SCOE

Technical Seminar/ Guest Lecture

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
Whats Next Carrer Opportunities in Civil Engineering	Seminar	29-05-2020	29-05-2020	Parthesh Parekh	Structural Engineer	Raje Structural Consultants Pvt Ltd
Seminar on IWWA for SE and TE students	Seminar	12/2/2020	12/2/2020	Mr. Ramesh Bambale	Hon. Joint Secretary General	IWWA
Seminar on Study Abroad	Seminar	4/2/2020	4/2/2020	Dr.Madan Jagtap	Associate Professor	SCOE
National Level Seminar on Cyber Security and Ethical Hacking	Seminar	30-09-2019	30-09-2019	Mr. Rizwan Shaikh	Founder	CTO

Industry/ Site Visit

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
Site Visit to Bhatsa Dam (WRE-2)	SITE VISIT	10/11/2019	10/11/2019	Mr Shaik S	Junior Engineer	Bhatsa Dam
Industrial Visit	Industrial Visit	10/11/2019	10/11/2019	Prof. Shirish	Asst.	Saraswati College

				Kulkarni	Professor	Of Engineering
Site Visit to Bhatsa Dam (WRE-2)	Site Visit	10/11/2019	10/11/2019	Mr Shaik S	Junior Engineer	Bhatsa Dam
Lab visit at Global Lab Turbhe	Industrial Visit	10/1/2019	10/5/2019	Mr. Hiren Joshi	Director	Global Lab
One Week Training Session at Konkan Rail Academy	INSTITUTIONAL TRAINING	1/2/2020	1/8/2020	KRCI	KRCL	Konkan Railway Corporation Limited

STTP

Sr No.	Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
1	STTP on Sustainable Development - Technological Advancement and challenges	STTP	16-12-2019	20-12-2019	Dr. Ajay R, Dr. Vikas V, Mr. Hirenkumar Joshi, Dr. Gopal Rai, Mr. Bhavesh Shah, Dr. Saumaya Singh	Associate and assistant professor, directors	DMCE, VJTI, Global Labs

Workshop/ FDP

Title	Type of event	Date from	Date to	Resource Person Name	Resource Person Designation	Resource Person Org
Webinar on Careers in IT/Software sector of Mechanical Engineering	WEBINAR	6/19/2020	6/19/2020	Mr. Amol Patil	Co founder & Director	Novus Nexus
One week Course on Personality Development	WORKSHOP	6/1/2020	6/5/2020	Prof. Seema Singh, Dr. Neha Sharma	Assistant Professor	Saraswati College of Engineering
Two Weeks-Hands on workshop on JAVA- (digital)	TRAINING	6/1/2020	6/12/2020	Prof. Sonali Shukla Prof. Kirti Pawar	Assistant Professor	Saraswati College of Engineering
One week Course on a Personality Development	WORKSHOP	6/1/2020	6/5/2020	Prof. Seema Singh	Assistant Professor	Saraswati College of Engineering
Whats Next	WEBINAR	5/29/2020	5/29/2020	Parthesh Parekh	Senior Structural Engineer	Raje Structural Consultants Pvt Ltd
Understanding Cement Test Reports	WEBINAR	5/28/2020	5/28/2020	Mr Pravan Y Sethi	Zonal Head	J K White Cement
Two week Internship on Python-a technical Activity	ADD-ON	5/18/2020	5/30/2020	Prof. Sonali Shukla and Prof. Kirti Pawar	Assistant Professor	Saraswati College of Engineering
Online Test Series a Placement Activity	TRAINING	5/16/2020	5/31/2020	Prof. Sima Singh /Prof Navdeep Bagga/Prof. Hemlata G/Prof.Umesh PinjarkarNarawade	Assistant Professor	Saraswati College of Engineering

Digital Twin	WORKSHOP	3/21/2020	3/21/2020	Dr. Rajesh Buktar	Professor	SPCE
Augmented Reality	WORKSHOP	3/20/2020	3/20/2020	Dr. Rajesh Buktar	Professor	SPCE
Python Training	TRAINING	3/11/2020	3/13/2020	Prof. Kirti Pawar, Prof. Sonali Shukla	Assistant Professor	Saraswati College of Engineering
One day workshop on SQL and ORDBMS	WORKSHOP	3/4/2020	3/4/2020	Prof. Tushar Ghorpade	Assistant Professor	RAIT NERUL
Python Training	TRAINING	3/2/2020	3/9/2020	Prof. Kirti Pawar, Prof. Sonali Shukla	Assistant Professor	Saraswati College of Engineering
Reduction of Air Pollution by De-Carbonising	WEBINAR	2/13/2020	2/13/2020	MONISH CHOUDHARY	CO-Founder	De-Carbonising center
One day workshop on Aurdino for Teachers	WORKSHOP	2/8/2020	2/8/2020	Prof. Kannan Moudgalya	Principal Investigator	PMMMNTT
Java Training Program	ADD-ON	2/3/2020	2/12/2020	Prof. Kirti Pawar	Assistant Professor	Saraswati College of Engineering
Aptitude Training	TRAINING	2/3/2020	2/13/2020	Mr. Anand Rao	Aptitude Trainers	Perfectice Eduventure Pvt Ltd.
Machine learning	SEMINAR	1/17/2020	1/17/2020	Pankaj pawar	trainer	Aptech
Aptitude Training for BE students	TRAINING	1/13/2020	1/28/2020	Anand	Course Co-ordinator	-
Two Week Java Training	TRAINING	1/13/2020	1/28/2020	Prof. Kirti Pawar, Prof. Sonali Shukla	Assistant Professor	Saraswati College of Engineering
Aptitude Training	TRAINING	1/13/2020	1/28/2020	Mr. Anand Rao and Mr. Sandeep	Aptitude Trainers	Perfectice Eduventure Pvt Ltd.
One Week Training Session at Konkan Rail Academy, Madigan, Goa	TRAINING	1/2/2020	1/8/2020	KRCL	KRCL	Konkan Railway Corporation Limited
Aptitude Training	TRAINING	12/9/2019	12/16/2019	Vinay Raikar	Founder of Campus Credential	Campus Credential
ATV / F5 car building internship	WORKSHOP	8/17/2019	8/24/2019	S. K. Chaudhary	Trainer	Elite Techno Group
Blockchain training	TRAINING	8/2/2019	8/2/2019	VIKASH KUMAR	CMO	EDUTECH
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				KUMAR		
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4. Research Grants

SPONSORED RESEARCH

ACADEMIC YEAR 2019-20

Total : Rs. 2,02,000/-

Sr. No	Academic year	Name of PI	Name of CO-PI	Type of Grant	Title of project	Amount Received
1	2019-2020	Prof.Sujata Bhairnallykar	-	University of Mumbai Minor Research Grants	Green House Automation	Rs.15,000/-
2	2019-2020	Prof.Arti Gore	-	University of Mumbai Minor Research Grants	Automatic Inspection System using Image Processing	Rs.25,000/-
3	2019-2020	Prof.Diksha Gautam Kumar	-	University of Mumbai Minor Research Grants	A smart solution for cleaning and maintenance of sewerage system	Rs.37,000/-
4	2019-2020	Dr. Sindhu Tayade & Dr. Sunita Pal	-	University of Mumbai Minor Research Grants	Study of heavy metals accumulation from waste water in irrigation of leafy vegetables in Navi Mumbai Region	Rs. 45,000/-
5	2019-2020	Prof .Sneha Burnase	-	University of Mumbai Minor Research Grants	Smart Accident Detection And Tracking System	Rs.20,000/-
6	2019-2020	Prof. Shweta Motharkar & Prof. Garima Nagpal	-	University of Mumbai Minor Research Grants	Conversion of STP Sludge as a Construction Material	Rs. 30,000/-
7	2019-2020	Dr. Sunil Rangari and Prof. Sanjay Singh	-	University of Mumbai Minor Research Grants	Stabilization of Expansive Soil Using Waste Material	Rs. 30,000/-

5. Patents

Sr.No	Design Number/Patent number/Application number	Title	Author/Members	Date of filing
1	202011005557	Hybrid energy Management system using solar,wind,Fuel cell sources for remote region	Prof. Paramjit Thakur	2/7/2020
2	201921049384	System and Method to Manufacture Paver blocks from Waste Plastic Bottles	Dr.Manjusha Deshmukh, Prof.Roshni John, Prof.Prasanna Raut, Prof.Amit Mane	12/2/2019
3	201921037718	System and Method to detect Quality of fruit	Dr.Manjusha Deshmukh	9/18/2019
4	201921047045	A compact semi-circular slotted fractal UWB monopole antenna	Prof. Sheetal Bukkawar	10/19/2019
5	201921047449	Robotic Sewer Inspection Cleaning and Toxic gas Neutralization System	Prof. Diksha Gautam Kumar, Prof. Shraddha Subhedar, Prof. Ragini Sharma, Prof. Prasanna Raut	11/21/2019
6	201921048195	System and Method to detect quality of a product	Dr. Manjusha Deshmukh, Prof. Vaishali Jadhav, Prof.Suhasini Parvatikar, Prof.Sujata Bhairnallykar, Prof.Arti Gore	11/25/2019

6. 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

7. 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.

8. Social Activities

Title	Organized By	Date
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

Title	Organized By	Date
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

9. 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.

10. Sewage Treatment Plant (STP)



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

11. Rainwater Harvesting



Rainwater harvesting tank

Capacity of Rainwater harvesting is 50,000 liters