



Sinhgad Institutes

**RMD SINHGAD TECHNICAL INSTITUTES  
CAMPUS (RMDSTIC), Warje, Pune-58.**

*NAAC accredited with "A" grade*



**Academic Year 2021-22**

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## INFORMATION OF THE DEPARTMENT

A.Y.2019-2020 for IQAC Meeting

Name of the Institute: **RMDSTIC, Warje, Pune.**

Date of Report: **20<sup>th</sup> March 2020**

Accreditation Grade : **A**

Date of Accreditation: **27<sup>th</sup> Nov. 2017**

Based on the Latest trends, technology and industry requirements the criteria for curriculum Gap identification is based on the following points:

- Model Curriculum of SPPU
- Feedback from Stakeholders (Alumni, Industry, Faculty, Students, Society)
- Feedback from Interviewers / Recruiters
- Interdisciplinary approach
- CO-PO mapping

### 1. Feedback System

#### a) Student's Feedback -

Student feedback has three main objectives:

1. To provide students to express on the quality of their learning experiences, as required in preparation for and as part of review processes.
2. The feedback is utilised methodically in the organization of teaching activities, decision making and the growth of teaching.
3. Online feedback on course delivery is taken from students, once during each semester and consolidated to get the rating of faculty. Comments are considered positively and weaknesses with regard to teaching are rectified by advising the faculty with the sole objective of maintaining good academic practices and standards.

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Action for Improvement
01	Civil Engg.	Yes	Average Feedback analysis of all Classes theory subjects & practical is above 92.46 %. Students are satisfied with the learning practices. Notes, important points and practice material from topics provided were satisfactory.	Faculties are counselled to motivate students regarding higher studies and research activities. Faculties were counselled to take practice for their communication development.

#### b) Employers/ Industries

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Action for Improvement
01	Civil Engg.	Yes	i. Students need to improve in communication skills, teamwork, and domain knowledge in order to make them industry ready. ii. Students need to be given more practical/industry based training and live projects. iii. Students need to explore some more advanced technology knowledge like cloud computing, Sales force etc. iv. Need to arrange more hands-on sessions & assign innovative projects to grow more in R&D.	i. Awareness session for personality development, Pre Placement training conducted for fundamental growth of core subjects. ii. Aptitude test from various companies format questions conducted for students. iii. Motivational talk arranged to encourage placement & higher studie

Alumni play an important role in the evaluation, development and enhancement of the quality of this learning experience. Alumni feedback is valuable for us as it provides inputs regarding improvement in facilities. We request our alumni to provide their earnest feedback to us through prescribed forms, emails and during alumni meets on the infrastructure, library and teaching faculty of the college. The purpose of this feedback is to assess the quality of the academic program. Civil Engg., Computer Engg, E&TC Engg, IT, Mechanical Engg. and MBA Departments are unable to take feedback during this Academic Year.

### c) Alumni

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Action for Improvement
01	Civil Engg.	Yes	i. Students need to explore some more practical knowledge like Quantity Surveying, Site management ii. Need to arrange more internship programs, training programs, software training for project management and structural design. iii. More no. of Industrial visits should be planned. iv. Need of relevance to Industry requirements.	i. Students are motivated for internship through training and placement cell. ii. Value addition programs have been arranged for different domains like project management, structural design. iii. Pre Placement activities conducted to improve basic concepts of technical subjects. iv. Elaboration of STP programs by industry experts

### d) Parents

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions [if Yes, write comments]
01	Civil Engg.	Yes	i. Provide fixed time for internship. ii. Most of the parents are satisfied with the departmental activities, laboratory infrastructure and efforts taken by faculties to improve student performance. iii. Parents are satisfied with the department faculties. During the PTM they have appreciated all the faculty members.

### e) Teachers

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Overall performance of the students	Laboratory	Any Recommendation to BOS
01	Civil Engg.	Yes	Satisfactory. Students are counselled to study regularly to improve results.	Satisfactory	Satisfactory	

The college aims to offer the best possible environment and learning experience to encourage students to perform to their full potential for academic attainment. By analyzing the feedback received from students, alumni, parents and stakeholders it is observed that the gap between industry and academia can be bridged by implementing the strategies mentioned below:

- ☐ Arranging Workshops
- ☐ Industrial visits
- ☐ Skill Enhancement Program
- ☐ Interdisciplinary projects
- ☐ Guest Lectures
- ☐ Communications to University BoS
- ☐ Alumni Interaction
- ☐ Industrial training for faculty
- ☐ Professional Society Activities
- ☐ Offering Open Electives

## **2. A) Value Added Courses during current year**

In addition to University curriculum courses are designed and implemented at institute level, as University curriculum cannot satisfactorily cover all areas of importance or relevance. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. The Value-Added Courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of students. The main objectives of the program are:

- To equip the students in current technologies and also to trim down the gap between academic and industry.
- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To promote ethical values and inculcate organizational behavior.
- To provide an opportunity to students to develop inter-disciplinary skills.

Various Value addition courses conducted by the institute during the AY 2019 – 20 are listed below:

Sr. No.	Name of Branch	Name of the Topic	Resource Person	Duration		No. of Students Enrolled
				From	To	
01	Civil Engg.	NIL	NIL	NIL	NIL	

After attending these value addition courses, outcomes are:

- ❖ Students were aware about the various software trends and new technology in the Industry.
- ❖ Students were well acquainted about the recent advances in the technologies that are used in the Industry.
- ❖ Students were also aware about the life cycle carried out for the project in the industry.
- ❖ Students were also made aware of Security markets.

## 2. B) Guest Lectures Arranged for Students

The objective of expert lectures is to explore curriculum content by interaction with industry experts. Guest lectures provides platform to students to express their ideas and view. Guest lectures are arranged for the students in the institutes on the topics in the curriculum and beyond the curriculum. Series of such session pour an extra enthusiasm to student to give practical approach to their study.

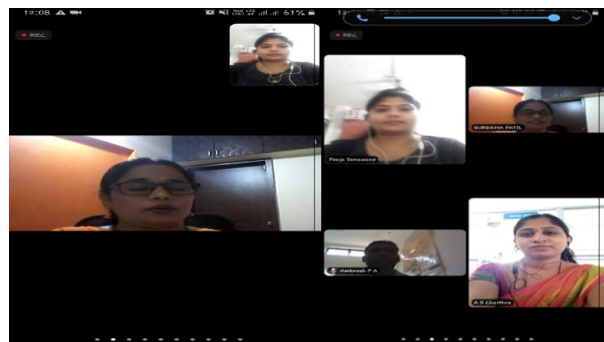
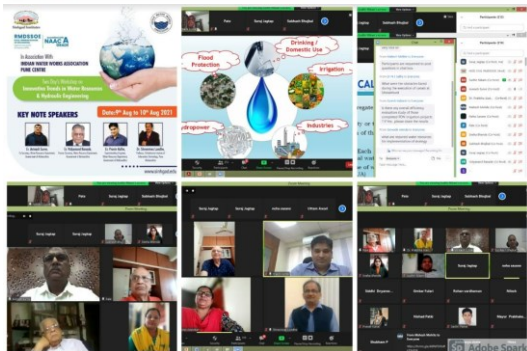
Various Value addition courses conducted by the institute during the AY 2021 – 22 are listed below:

Sr. No.	Name of Branch	Name of the Topic	Resource Person	Date of Conduction	No. of Students Enrolled
01	Civil Engg.	Awareness to Civil Engineering practices	Mr. Venkat A. Patil	21/1/2022	149
		Structural Health Monitoring,retrofitting & Rehabilitation	Dr. S.N. Khante Dr. Suresh Bhalla Dr. Ratnesh Kumar Dr. Kumthekar Dr. Shiradhonkar	12/7/2021to 16/7/2021	165
		Innovative trends in water resource & hydraulic Engg	Er. Surve Er. Ranade Er. Pravin Kolhe Dr. Shrinivas Londhe	9/08/2021 to 10/08/2021	513
		Research Design Publication & IPR	Dr. Milind Mohol Dr. Marthand Telsam Mr. Nilesh dhobale	28/07/21 to 30/07/21	190
		Excel for civil engineers-Basic level	Mr. Prati shirole	3/7/21 to 7/7/2021	50
		Excel for civil engineers-advanced level	Mr. Prati shirole	17/1/2022 to 21/1/2021	40
		Pre/ Post requisite for masters degree abroad	Mr. Yash Kulkarni	23/9/2021	155
		Scope for civil engineers in construction industry in USA	Ms. Shrina Deshpanday	23/9/2021	155
		Scope & Opportunities for civil Engineers in construction industry in Canada	Mr. Abhishek Pustake	14/1/2022	110
		Microsoft project software in construction industry	Mr. B. T. Ade	9/3/2021	20

After attending the above Guest Lectures Arranged for Students, outcomes are:

- ☑ These Guest lecture enlighten the students in taking right career path.
- ☑ Students got opportunities to interact with the people in the industrial world and gain knowledge and sound exposure to face the world.
- ☑ Developed the sense of responsibility among the students and make them confident to work in industries.
- ☑ Students interact with various industry experts belonging to different domains.
- ☑ Students learn what industry needs and what they need to achieve them.
- ☑ Students got clear idea about need of internships and additional skill development.

## Guest Lectures Arranged for Students [A.Y. 2021-2022]



**Innovative Trends on Water Resource Engineering**

**Research Design Publication & IPR**

### **3. Field/ Industrial Projects for students during current year**

The aim of these Field/ Industrial Projects is "Education – Exposure – Experience." The main objective of Field/ Industrial Projects is to expose the students to actual working environment and enhance their knowledge and skill from what they have learned in the curriculum. Another purpose of it is to impart the good qualities of integrity, responsibility and self-confidence. It is also to help the students about the safety practices and regulations inside the industry and to inculcate the spirit of teamwork and good relationship between students and employees.

<b>Sr. No.</b>	<b>Name of Branch</b>	<b>No. of Projects</b>	<b>No. of Students Enrolled for Projects</b>	<b>Prominent Industries Sponsoring the Projects</b>
01	Civil. Engg.	NIL	NIL	NIL

After allotting the Industrial Projects for Students, outcomes are:

- ☐ Students were equipped with the required skills from the industry.
- ☐ Students have worked in industry and got the live experience of working in industry.
- ☐ Students have developed an ability to identify, formulate and model problems and find engineering solutions based on a systems approach.
- ☐ It has provided a comprehensive learning platform to students where they can enhance their employability skills and become industry ready along with corporate exposure.



## 4. Project based learning (PBL)

The objectives of PBL system are;

- ❑ **Self-directed learning:** Through tutorial sessions the students are taught to self-formulate their goals and objectives of learning of particular topics and then at the end of each session they are expected to evaluate the extent to which their goals are realized
- ❑ **Problem solving:** This encourages students to increase their motivation to learning, critical thinking, writing and also to enhance communication skills.<sup>2,3</sup> This may be through the medium of case scenario where students analyze the information and come to a conclusion
- ❑ **Team work:** The students are required to work together and cooperate with each other during entire process through out the project.
- ❑ Methodology, is improving the learning of the students.
- ❑ Project-based learning not only provides opportunities for students to collaborate or drive their own learning, but it also teaches them skills such as problem solving, and helps to develop additional skills integral to their future, such as critical thinking and time management.
- ❑ Some examples of a project are:
  - ❖ Water Absorbing Road.
  - ❖ Land Cover Analysis using Remote Sensing & GIS.
  - ❖ Zero Radius Turning & Four Wheel Steering System.
  - ❖ Power generation using rowing machine.
  - ❖ Insurance Management System.
  - ❖ E-Commerce Website.
  - ❖ Hydrogen Car.
- ❑ The project method has several steps: The teacher and the students examine a certain environmental topic, they choose a problem which is important to them, and then they develop and carry out an action plan. With each step the students assume more and more the role of a manager able to treat environmental topics. Following are the students doing their Laboratory Innovation & Project work in respective classes.

Sr. No.	Name of Branch	Name of Class	No. of Projects
01	Civil	SE	32

## **5. Students Internship (including online Internship for IT, Comp. etc) and Industrial Visits**

### **a. Student's Internship –To prepare students are ready to join industry based on the Internship**

The purpose of Industrial Training / Internship is to expose students to real work of environment experience and at the same time, to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others. Moreover, this practical training program allows students to relate theoretical knowledge with its application in the manufacturing industry.

#### **Aim & Objectives of Students Internship:**

- ❖ To provide students the opportunity to test their interest in a particular career before permanent commitments are made.
- ❖ To develop skills in the application of theory to practical work situations.
- ❖ To develop skills and techniques directly applicable to their careers.
- ❖ Internships will increase a student's sense of responsibility and good work habits.
- ❖ To expose students to real work environment experience gain knowledge in writing report in technical works/projects.
- ❖ Internship students will have higher levels of academic performance.
- ❖ Internship programs will increase student earning potential upon graduation.
- ❖ To build the strength, teamwork spirit and self-confidence in students life.
- ❖ To enhance the ability to improve student's creativity skills and sharing ideas.
- ❖ To build a good communication skill with group of workers and learn to learn proper behavior of corporate life in industrial sector.
- ❖ The student will be able instilled with good moral values such as responsibility, commitment and trustworthy during their training.
- ❖ Develop intentional learning objective goals that are structured into experience & supervised by professionals with relevant background in the field of mechanical engineering

In Various domain students are joined in Industry for Internship between the two semesters. Branch wise list of students was taking internship shown in the Table.

<b>Sr. No.</b>	<b>Name of Branch</b>	<b>Name of Student</b>	<b>Name of Industry</b>	<b>Specialization Area</b>	<b>No. of days</b>
01	Civil Engg.	POWAR SAMRUDHI DATTATRAY	SAMISHTHI TECHNO SERVICES CONSULTANTS LLP.	Construction Technology	30
		Swamini sanjay khole	Samishti	Construction Technology	30
		ASHWINI NAGNATH SARWADE	SAMISHTHI TECHNO SERVICES CONSULTANTS TANTS LLP	Construction Technology	30
		CHIRMADE NAVIN RAJENDRA	Jadhav Construction And Builder's	Construction Technology	60
		Suyash Tanaji Kamble	V K CONSTRUCTION	Construction Technology	30
		Prapti Ninawe	V K CONSTRUCTION	Construction Technology	30
		Sakshi Khapre	V K CONSTRUCTION	Construction Technology	30
		Suyash Vikas Mhamane	V K CONSTRUCTION	Construction Technology	30
		Kaustubh Ajay Pashankar	Aditya Construction	Construction Technology	30

		Mohan Kishorsinh Rahekwal	SAJCON CONSULTANTS PVT. LTD.	Construction Technology	60
01	Civil Engg.	Vaibhav Gorakh jewrikar	Visvesvaraya field training academy,Latur -413512	Construction Technology	60
		Vaibhav Suresh Kasbe	V K CONSTRUCTION	Construction Technology	90
		Sadanand Bhalchandra Boyane	Visvesvaraya field training academy,Latur -413512	Construction Technology	30
		ROHIT MARUTI BIRADAR	C.K Construction	Construction Technology	60
		Tushar Tapan Das	Hammer World Constructions	Construction Technology	30
		Hemant Rajesh Ganatra	Hammer World Constructions	Construction Technology	30
		Gaurishankar baswaraj birajdar	Visvesvaraya field training academy	Construction Technology	30
		Vishvas Babasaheb More	Nirmit Construction	Construction Technology	30
		SUSHANT DAGADU PATIL	Nirmit Construction	Construction Technology	60
		Piyush kiran pensalwar	Nirmit Construction	Construction Technology	30
		Rohit Sandeep Rajarshi	Shrinivas Developers	Construction Technology	30
		Nagapure Piyush Ajit	Vishvashweriya Feild training academy	Construction Technology	30
		Piyush Nagapure	Vishvashweriya Feild training academy	Construction Technology	30
		Ayush Bade	GRAVITY Construction & Interior	Construction Technology	30
		Vaishnavi Sude	Spencer Enterprises	Construction Technology	60
		Deore Himanshu Vinayak	S. A. Sawant constructions Pvt Ltd	Construction Technology	60
		Tejas hemant salunkhe	RKC infrastructure private limited,	Construction Technology	90
		Gaurishankar baswaraj birajdar	Vishvashweriya Feild training academy	Construction Technology	30
		Shubham Sanjay Mahale	S. A. Sawant constructions Pvt Ltd	Construction Technology	60
		Tushar Arjun Gaikwad	Samishthi Techno Services Consultant LLP	Construction Technology	30
		Nishant Suresh Patil	Sai Constructio	Construction Technology	30
		Vishnu Jadhav	Samishthi Techno Services Consultant LLP	Construction Technology	30
		Esalwar Vaibhav Maroti	Samrudhi Construction	Construction Technology	30
		Digvijay Nikam	Bachhav Builders And Developers LLP	Construction Technology	60
Rushabh kankal	S.D.More & Associates	Construction Technology	30		

01	Civil Engg.	Yashkumar Suryabhan bhusare	Bachhav builders and developers	Construction Technology	30
		Digvijay D. Deshmukh	NP infra pvt. ltd.	Construction Technology	30
		Swapnil Suresh Jagtap	Raj Buildcon	Construction Technology	30
		Anushka Shewalkar	Bachhav Builder's Developers	Construction Technology	30
		Siddhi Sonare	Bachhav builders Developers	Construction Technology	60
		Pritam Prabhakar Pawar	NEOGEN CONSULTANTS	Construction Technology	60
		MANANI JAY VASANT	AADI CONSTRUCTION	Construction Technology	90
		Rohit Manik Bachhav	Bachhav Builder's & Developers	Construction Technology	30
		Hitesh Mangesh Mangaonkar	ASR Promoters & Developers LLP	Construction Technology	60
		Tejas Tukaram Sawant	ASR Promoters & Developers LLP.	Construction Technology	30
		Shubham Sharad Naik	ASR Promoters & Developers LLP	Construction Technology	30
		Lokesh Yogesh Patil	Vinit Construction Nashik	Construction Technology	30
		Ninad Vikas Parab	Asr promoters and developers	Construction Technology	30
		Prajwal Nitin Mahajan	Ekadant Construction	Construction Technology	60
		Aashwini Bapurao Mule	SAMISHTHI TECHNO SERVICES CONSULTANT LLP	Construction Technology	30
		KHAGENDRA SANJAY KHEDWAN	SAMISHTHI TECHNO SERVICES CONSULTANTS LLP	Construction Technology	30
		Ganesh shendge	Shri Developers	Construction Technology	30
		RATHOD SHRIKRUSHNA PANDIT	Shree Mauli Construction, design & devloper's	Construction Technology	30
		YASHASHREE EKNATH IDHATE	Samishti Technoservices Consultants	Construction Technology	30
		Lokesh Galsing Pawar	Tulsi Buildtech	Construction Technology	60
		Rushikesh Vivek Kshirsagar	JD CONSTRUCTION	Construction Technology	60
		SAGAR BALU MORE	SHREE MAULI CONSTRUCTION DESIGN AND DEVELOPERS	Construction Technology	90
		Komal shankar gawari	Ranjeet gaikwad engineering & contractors	Construction Technology	30
		Biradar Dipali Umeshrao	Ranjeet Gaikwad Engineers And Contractors	Construction Technology	60
		Shubham Sanjay Honalikal	Ranjeet Gaikwad ENGINEERS &	Construction Technology	30

			CONTRACTORS		
		Sumati Balbhim Dande	Ranjeet gaikwad engineers and contractors	Construction Technology	30
		Bilal Khan	A.P.Mane Civil Service	Construction Technology	30
01	Civil Engg.	Sanket Sanjay Deshmukh	PIONEER DEVELOPERS	Construction Technology	30
		PANKAJ PRAKASH CHAUDHARI	TRIMURTI DEVELOPERS	Construction Technology	60
		Ashutosh Rahul Pole	NDG Projects LLP	Construction Technology	30
		Abhijeet Kishan Wakle	Nexus Enterprises	Construction Technology	30
		Rushabh ganeshrao kankal	S.D.more & association	Construction Technology	30
		PANKAJ PRAKASH CHAUDHARI	TRIMURTI DEVELOPERS	Construction Technology	30
		Onkar Suresh Shinde	Trimurti Developers	Construction Technology	30
		Altaf Chand Patel	A. S. ASSOCIATE	Construction Technology	60
		Saurabh Vilas Rathod	Shree mauli construction	Construction Technology	60
		SUNNY BHIMA KANADE	Aditya construction	Construction Technology	90
		Suraj bhawar	SURAJ developers	Construction Technology	30
		Mandale Amardeep Bhausahab	Civil engineers and govt contractors	Construction Technology	60
		Noopur Hande	Shree laxmi enterprises	Construction Technology	30
		Siddhesh dharmavat	Upd construction	Construction Technology	30
		Abhishek Mahajan	V K CONSTRUCTION	Construction Technology	30
		Pratik mahale	Shree Ram Vrundavan	Construction Technology	30
		Siddhesh dharmavat	Upd construction	Construction Technology	60
		Tejas Tanaji Pasare	Shree Samartha Krupa Associates	Construction Technology	30
		Pradhumna Sunil Lohakare	B.G. Associates, Akulj	Construction Technology	30
		RUSHIKESH LAHU KAMBLE	Shree Ram Vrundavan	Construction Technology	30
		Mayuresh Sandeep Urit	S.B Pasalkar	Construction Technology	30
		Nishant Dilip chavan	Shree mauli construction	Construction Technology	30
		Shirish Bhand	UPD construction	Construction Technology	60

		Siddhesh sunil kadu	Shree samaratha krupa assocites	Construction Technology	60
01	Civil Engg.	Anushka Ashok Shewalkar	Bachhav Builder	Construction Technology	90
		Pathan Faizankhan Arshadkhan	Sharda Construction and Corporation	Construction Technology	30
		Shubham Velekar	Samishthi techno service consultant LLP.	Construction Technology	60
		Siddhant Ahir	ASHISH B.AMBHORE	Construction Technology	30
		Siddhi P. Sonare	BACHHAV BUILDER'S DEVELOPERS	Construction Technology	30
		Mali Piyush Rajendra	SR Interprises	Construction Technology	30
		Shivprasad Bhanudas Khude	Roshn congratulation & interiors	Construction Technology	30
		Rathod Nikhil Prakash	NOOR CONSTRUCTION	Construction Technology	60
		Shirish Shivaji Bhand	Commercial project at Bhosari	Construction Technology	30
		Chinmay Kadu	SB pasalkar	Construction Technology	30
		Ashutosh Rahul Pole	NDG Projects LLP	Construction Technology	30
		Harshal Vikas Salunkhe	NDG Projects LLP	Construction Technology	30
		Shubham Sharad nagame	Swaraj homes company pune	Construction Technology	60
		Krishna Santosh Shinde	Shree mauli constitution	Construction Technology	90
		Khilesh Waghulde	NDG Projects LLP	Construction Technology	30
		Nehru Mudavath	Royal Buildcon	Construction Technology	60
		Afroz Maheboob Sayyed	Royal Buildcon	Construction Technology	30
		Prajwal Nitin Mahajan	Ekadant Construction	Construction Technology	30
		Parag Prakash Gorad	Ekadant constructions	Construction Technology	30
		Samarth Suresh Karle	Royal buildcon	Construction Technology	30
		Digvijay Shashikant Nikam	Bachhav Builders and Developers LLP	Construction Technology	60
		BHALERAO PRADIP VINAYAK	Samishthi techno services	Construction Technology	30
		Devendra Sharad gawande	Vighnaharta enterprise	Construction Technology	30
		Akash Sawant	Shree Sai Developers	Construction Technology	30
		Faizankhan Pathan	Sharda construction and corporation pvt. Ltd.	Construction Technology	30

01	Civil Engg.	Siddhesh Nitin Rathod	Samishthi Techno	Construction Technology	30
		Shreyas	J D construction	Construction Technology	60
		RUSHABH MANOJ DHOKA	RAJ BUILDCON	Construction Technology	60
		Sanket Sachin Parakh	Raj Buildcon	Construction Technology	90
		Sairaj Bipin More	Tejas-pooja associated	Construction Technology	30
		PRASAD PARMESHWAR SURVASE	Tejas Pooja Associates	Construction Technology	60
<b>Total No. of Students Internship during A. Y. 2021-22</b>					<b>117</b>

Outcome of the Students Internship is as follows.

- ❖ Students have understood the site knowledge more deeply and have understood the practical aspects involved at construction sites
- ❖ Students will be able to work in teams in a real time industry environment.
- ❖ Students will be able to work in industries and will be able to acquire skills that can be applied to future jobs.
- ❖ Student will be able to find out the unknown technical skills as per industry standard.
- ❖ Ability to acquire & apply knowledge to real applications.
- ❖ Get exposure by interacting with professionals.
- ❖ Ability to identify, formulate & solve problems in mechanical engineering by applying principles.
- ❖ Students interact with industry persons and gets hands on training of industry processes and practices.
- ❖ Students understand actual industry practices and get field work experience

## b. Industrial Visits:

The main Objective of Industrial Visit or Industrial Tour for the department students to give them exposure about practical applications for their fields. In real, as a part of their engineering or professional graduation, students must visit industries in order to get a proper insight about how the real working environment of a company is and the functionality at different levels while pursuing the graduate education.

Sr. No.	Name of Branch	Name of Class	Name of Industry	Date of Visit	No. of Students
01	Civil Engg.	Second Year	(SSD) Virtual Site Visit	29/11/2021	55
			(SSD) Virtual Site Visit	26/11/2021	60
			(AGE) local Site Visit	01/04/2022	20
		Third Year	(DRCS)Gunde Complex, Bavdhan	27/04/2022	110
			(WWE) STP near Rajaram Bridge	11/4/2022 & 12/04/2022	88
			(AGE) Malpani Group Construction Site, Baner	01/04/2022	18
		Final Year	(DHS) Nira Devghar & Bhatghar Dam	26/4/2022	123
			(APC) Rajgad Sugars Pvt Ltd	26/4/2022	123
<b>Total No. of Visit during A. Y. 2021-2022</b>					08

The visit Incharge shall look after the students at the time of visit and report to the office and HOD after successful completion of visit and shall record the same in the activity register. A small presentation by group of students may be made on the classes (depending upon its usefulness) for 5/10 minutes during a regular lecture in time table.

### **Outcome of the Industrial Visit is as follows:**

- ❖ Industrial visits provide the students with an opportunity to learn practically through interaction, working methods and employment practices.
- ❖ It gives the students an exposure to current work practices as opposed to theoretical knowledge being taught at their college classrooms.
- ❖ By way of interactions with the staff of the industry, students get more exposure towards the current work conditions of any industry
- ❖ Provides an opportunity to plan, organize and engage in active learning experiences both inside and outside the classroom
- ❖ Provides an insight into the real working environment of the Industry
- ❖ Helps them to see their future place in the working world
- ❖ It serves as a relation building process between institutes and industry
- ❖ Helps to enhance their interpersonal skills and communications
- ❖ The employee contacts are precious especially when the students wish to pursue the same career.



Department of Civil Engineering



Virtual (Online) Site visit to meteorological station

## 6. Professional activities of Students

### a. Professional societies etc.

The aim of the Association/ Chapters: Gathering the member organizations of the Associations in order to increase the professional knowledge and provide them with social status, in accordance with their contribution to socio-economic, scientific-technological development. It also assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organizations.

Objective of the Association/ Chapters:

- ☐ To formulate the general goals & responsibilities of technical education.
- ☐ To adjust curriculum & educational processes to changing conditions.
- ☐ To develop effective teachers & educational administrators.
- ☐ To improve instructional methods & practices & administrative usages.
- ☐ To enhance professional ideals & standards.
- ☐ To foster research as a function complementary to teaching.
- ☐ To cultivate fraternal spirit amongst the teachers, administrators, industrialists & professionals.
- ☐ To bring about effective linkage between technical institutions industry & society.
- ☐ To award Honorary fellowships, Awards and Prizes, for furthering the objectives of Technical Education.

Departments are run engineering societies, at colleges level. These are listed below.

- a. Indian Society for Technical Education (ISTE)
- b. Aeronautical Society of India (ASI)
- c. Computer Society of India (CSI)
- d. The Institution of Engineers (India)
- e. Institution of Mechanical Engineers (India)
- f. Institution of Electronics and Telecommunication Engineers (IETE)
- g. Indian Science Congress Association (ISCA)

**Outcome of the Professional Society / Chapters:** Students gain Co-curricular, Extracurricular and practical knowledge through various technical activities. Also, Student will be proficient in the skills regarding the publishing the technical papers, participation in conferences, etc.

**b.** List of Technical Magazines, News Letters etc.

Technical Magazine /Newsletter is reaching out to every individual of the college and parents about the happenings in the college, and endeavors students in organizing a variety of events.

Newsletters and magazines provide a forum for students and faculty to express their views and insights on subject-related and general topics.

Aim of Newsletter:

- ☐ To get a recognition to the departmental activities & Events taking place at Department level
- ☐ To present a platform for encouragement of faculties as well as students.

Objectives of Newsletter:

- ☐ To provide a technical knowledge platform to the students to explore.
- ☐ To educate about events/activities conducted in the department.
- ☐ To educate readers about the exciting new developments and ongoing programs at the College.
- ☐ To mainly focus on Achievement of the students from the department in the Co-curricular and Extra-Curricular Activities.
- ☐ To make students, parents and educational community aware about various activities carried out.
- ☐ To know about students and staff achievement and glorious moments of institute

Department-wise Newsletters with their Name of title published in A.Y. 2019-2020 are given below.

Sr. No.	Name of Branch	Title of News Letter	Date of Publication
01	Civil Engg.	Spandan 2021	17/10/2022

Outcome of the Newsletters

- ☐ The students and parents get a chance to get the departmental activities information through the departmental Newsletter
- ☐ To promote faculties and students for their co curricular and extra curricular development
- ☐ It boosts to promote self-esteem, motivation, cultural exposure, creativity, social harmony and appreciation of diversity.
- ☐ It encourages, motivates, exposure to students in various fields like BAJA, SUPRA, and various technical activities.
- ☐ It shows the talent of students.
- ☐ Stakeholders know about the happenings of the department
- ☐ To give platform for the students to rejuvenate their artistic skills and talent

We are unable to publish RMDSTIC College level magazine from A.Y. 2016-2017.



Sinhgad Technical Education Society's  
**RMD Sinhgad School of Engineering, Pune-58**  
**DEPARTMENT OF CIVIL ENGINEERING**  
 Newsletter  
**Spandan-2022**

Volume III  
 2021-22

### From STES President's Desk



**Prof. M. N. Navale**  
 Founder President

Education is not mere accumulation of facts. It is preparation of Mindset. Education and knowledge are two important aspects which always take the students higher and higher. A blend of wisdom and ethics develops the personality of the students, moulds their character and develops their skills which help them cope up with problems and challenges of the complex world of today. The aim of Sinhgad Institutes is not only to make the students successful in life, but also make them conscious of their duties and responsibilities towards their fellow citizens.

Established in the year 1993, Sinhgad Institutes offer quality education from pre - primary to Doctorate. From a humble beginning the Institute has grown to a large expanse. At Sinhgad Institutes you will experience the ambience of a place where students are always striving for excellence. The students always continue to scale new heights of achievement in manifesting talent and winning laurels.

### From Principal's Desk

The RMD STIC has been dedicated to its mission to nurture students who are builders of nation by advancing knowledge and imparting quality education. The corporate world is changing rapidly always with a profound impact on the role of professional institutions. The key to meet these challenges is to give more emphasis on industry-institute interaction, to train the students in technical and soft skills and to invite the experts from industry for guest lectures. Studying in RMD STIC can be a life changing experience for a student. Apart from academic activities, the extra and co-curricular activities, sports, adventure, cultural and CSR activities, form important parts of the life of the students. We are very delighted to bring first Newsletter "Spandan 2022" from Civil Engineering Department and wish them all the best in future endeavour.



**Dr. V. V. Dhill**  
 Director/Principal



**Dr. Sharad S. Mulla**  
 Dean Academics in RMDSSOE

### From Academic Dean's Desk

Dr. Sharad S. Mulla has shouldered the responsibility of Dean Academics in RMDSSOE, and has taken a number of steps to improve the overall Academic climate of the institute. The biggest challenge for today's engineering educational institutions is to accommodate the ever changing aspirations of the younger generation. We continuously put these aspirations by fine tuning the academic delivery. The mechanism with innovative teaching learning practices along with all round developmental practices with all round developmental activities.

### From HOD's Desk

Civil Engineers build the world's infrastructure. In doing so, they quietly shape the history of nations around the world. The Field of Civil Engineering is so vast that one can't limit itself to any particular field and excel without having a proper knowledge of other related fields. As a Civil Engineer a vast world of imagination and dreams is opened to us. Your success matters to us, and we are here to help, guide and direct you to your ultimate educational and career goals. And this year we feel great pleasure to club all our activities in these glorious pages.



**Dr. Pratiksha Naikhan**  
 HOD Civil Department RMDSSOE

### ISTE Approved One Week Short Term Training Program (STTP) "Structural health monitoring, retrofitting & rehabilitation" From 12<sup>th</sup> July to 16<sup>th</sup> July 2021

**ISTE APPROVED**  
 (Short Term Training Program)

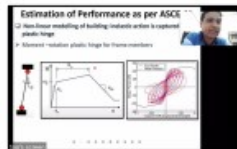
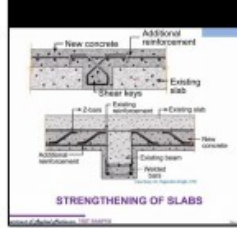
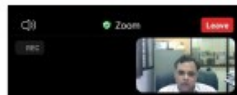
**Structural Health Monitoring, Retrofitting & Rehabilitation**

Department of Civil Engineering

**STTP Convenor**  
 Dr. V. V. Dhill

**Faculty Coordinators**  
 Dr. Pratiksha Naikhan, Dr. Anurag Kulkarni, Dr. Anil Kulkarni, Dr. Anil Kulkarni, Dr. Anil Kulkarni

**Keynote Speakers**  
 Dr. Anurag Kulkarni, Dr. Anil Kulkarni, Dr. Anil Kulkarni, Dr. Anil Kulkarni



**Fabrications of Advanced PET**

Advanced self-compacted PET

(a) PET 5% grade sample, (b) LTR mortar

### VISION

उत्तमसुखान् उत्तमविषयान् निर्मानु कर्तव्यम्: ययम् ।  
 We are committed to produce good human beings along with good Engineers.

### MISSION

holistic development of students and teachers is what we believe in and work for. We strive to achieve this by imbuing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity and technology transfer. Our mandate is to generate, preserve and share knowledge for developing vibrant society.

### Long Term Goals

- To promote research activities of students and faculties in the department.
- To establish a standardized educational platform which will make the students capable of facing the challenges in modern era.

### Short Term Goals

- To create excellent Civil Engineers who will serve the Society through their competence, research and innovations.
- To strengthen the Industry Institute interaction for bridging the gap between theory and practice.

### ABOUT THE DEPARTMENT

The goal of our Department is to become one of the leading civil engineering departments in the region in terms of teaching and quality and to get known for research, creation of knowledge base, education, industry interaction and entrepreneurial activity.

We are focused to enrich our student with academics, industrial needs & extracurricular activities. The academic calendar has been framed to nurture the students in the right direction to imbibe top professional knowledge with human touch. Faculty is experienced having sound technical knowledge and expertise in their subjects.

Our department has a very active Students' Association (CESA) which organizes various social & technical events, guest talks etc.



### DEPARTMENTAL ACTIVITIES AT A GLANCE



### Workshop on "Excel for Civil Engineers-Advance Level" 17th to 21th January 2022 Workshop on "Excel for Civil Engineers-Basic Level" 3rd to 7th July 2022 conducted by Prof. Mahesh Mohite , Prof. Suraj Jagtap online mode



### Webinar on "Automation in Construction Project Planning" 26th July 2021 conducted by Prof. Swati Khairnar, Prof. Sarita Patil, Prof. Reshma Shende



### Workshop on "Research, Design, Publications & IPK" 28th to 30th July 2021 organized by Prof. Surekha Patil & Prof. Pooja Sonawane





## 7. Explain in short, the student mentoring system

(No. of students per mentor – frequency of meeting- issues considered)

### Aim of The Teacher Guardian:

- ❑ To monitor, counsel and mentor students about their academic performance and personal professional development
- ❑ To monitor the student's regularity & discipline

### Objectives of The Teacher Guardian:

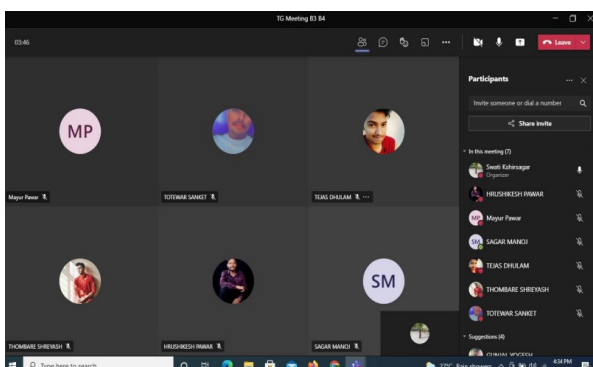
- ❖ To provide and create awareness among the students about consistency in the academic performance.
- ❖ To make parent aware about their ward's progress and other academic related matters.

### TEACHER GUARDIAN MEETING

- ❑ A teacher Guardian scheme is a unique system in which one faculty member is allocated for a batch of 20 to 22 students in a class. So, every class has three Teacher guardians & one class teacher.
- ❑ Other than being nurtured in the classroom, our students benefit from the Teacher- Guardian scheme, which gives them moral as well as emotional support related to their academics or non-academics activities. TG is a connecting link in between parents and the students who communicates directly to parents about their ward's developments in the college.
- ❑ The Staff Guardian is to advise to interact with students on the following broad questions, during the meeting to be scheduled on every week. Please remember, not only counseling but parenting will be required if we wish to draw some meaningful results out of this activity.
- ❑ The documentation formats have been derived in such a way that the documentation of the activity is not hectic; gives freedom to you on range of issues, at the same time, helps yourself to evaluate how many students in your group have been motivated and performed better actually.

Weekly Department wise Teacher Guardian Meeting conducted [A.Y. 2019-2020]:

### Department of Civil Engineering TG Meeting (SE/TE/BE)



## **8. Give the Percentage of university results without backlog / ATKT for the last four years**

% Result =

$$= \frac{\text{No. of students passed without backlog} / \text{ATKT}}{\text{No. of students appeared for exam}}$$

$$= \frac{\text{No. of students passed without backlog} / \text{ATKT}}{\text{No. of students appeared for exam}}$$

$$= \frac{\text{No. of students passed without backlog} / \text{ATKT}}{\text{No. of students appeared for exam}}$$

$$\& \frac{\text{No. of students passed with ATKT}}{\text{No. of students appeared for exam}}$$

### **a. University Result Analysis**

Sr. No.	Branch	Class	A.Y. 2021-2022		A.Y. 2020-2021		A.Y. 2019-2020		A.Y. 2018-2019		A.Y. 2017-2018	
			Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT
01	Civil Engg.	SE	37.25	62.75	91.39	8.61	36.6		17.02	73.76	19.50	78.00
		TE	98.0	1.98	95.93	4.07	45.60	54.4	50.80	92.74	38.09	52.38
		BE	95.90	4.10	98.82	1.18	58.82	41.18	81.12	18.88	86.52	13.48

### **b. Summary of Result Analysis [A.Y. 2021-22 (Sem-I)]**

Name of Department	Comp. Engg.	Civil Engg.	E&Tc Engg.	IT	Mech. Engg.	RMDSSOE Result
<b>B.E.(All Branches) Regular Students.</b>						
Total students	162	171	41	86	214	674
No of pass	160	164	41	85	200	650
% age result	100	95.90	97.56	98.83	93.45	97.14
Distinction	154	41	12	85	112	404
First class	6	123	22	0	28	179
Higher second class	0	0	6	0	00	6
Second class	0	0	0	0	00	00
Pass Class	0	0	0	1	00	1
No. of Fail Students	0	7	1	0	14	22
<b>T.E.(All Branches) Regular Students.</b>						
Total students appeared	179	151	33	77	69	509
No of All Clear Students	171	99	32	76	47	425
% age all clear result	100	65.56	97	98.8	68.11	85.89
Distinction	171	95	32	76	43	417
First class	0	4	0	0	04	8
Higher second class	0	0	0	0	00	00
Second class	0	0	0	0	00	00
Pass class	0	0	0	1	00	01
No. of fail students	0	3	1	0	22	26

**S.E.(All Branches) Regular Students.**

Total students appeared	179	145	28	89	27	468
No of All Clear Students	175	91	28	89	14	397
% age all clear result	98	62.75	100	100	51.85	82.52
Distinction	160	34	27	84	03	308
First class	8	54	1	3	08	74
Higher second class	1	3	0	0	03	07
Second class	0	0	0	0	00	00
Pass class	0	0	0	1	00	01
No. of fail students	4	2	0	0	06	12

**FE (All)**

Total students appeared						307
No of All Clear Students						120
% age all clear result						39.09%
Distinction						74
First class						42
Higher second class						2
Second class						0
Pass class						2
No. of fail students						1

	MBA-I	MBA-II				
Total No. Of students	204	162				
No. Of students Passed	203	141				
No of students Failed	1	21				
All Clear Passing percentage	99.50	87.03				
No. of students scoring O (90-100)	20	6				
No. Of students scoring A (80 -89)	156	91				
No. Of students scoring B (70 - 79)	26	42				
No. Of students scoring C (60-69)	1	2				
No. Of students scoring D (50-59)	0	0				
No. Of students scoring E (45-49)	0	0				
No. Of students scoring P (40- 44)	0	0				

## 09. Placement, Higher Studies, Self-Employment

The institute has appointed a Training and Placement officer with one faculty from each department as members with the objective that majority of eligible students are placed and coaching the students towards employability.

The Training & Placement Cell prepares budding professionals to be globally effective in their career. The main thrust areas are personality development & proper communication skills. Training is imparted right from the day student enters the institute.

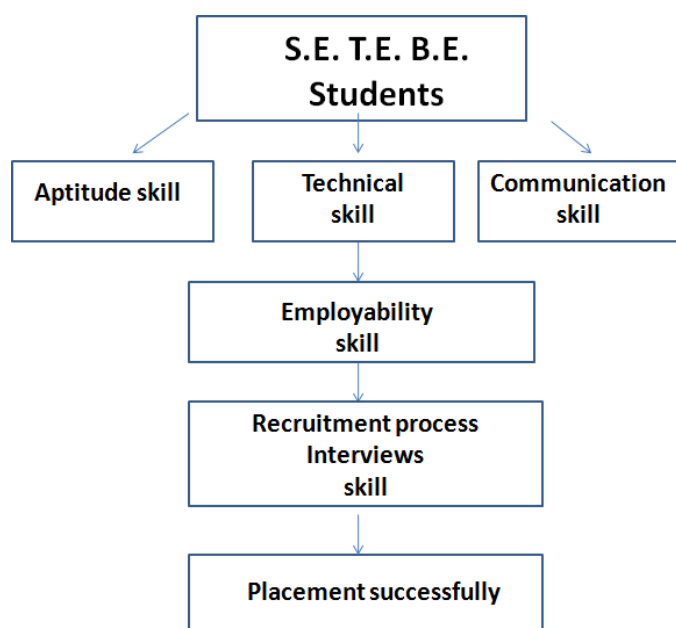
Training and placement office with ample space, furniture, computers, video conferencing for online interviews for students is provided.

The objectives of training and placement cell are

- ❖ To equip the students with proper technical skills & imbibe spirit of professionalism.
- ❖ To prepare students for the placement as per requirements & expectations of industry.
- ❖ To maintain close liaison with reputed industry & corporate to ensure maximum placements.
- ❖ To help in securing the consultancy work & industry sponsored projects for staff & students.
- ❖ To enter in the campus connect program with leading industries & corporate.
- ❖ To create maximum opportunities for the students by identifying emerging trends & establishing close rapport with leading professionals from industry.
- ❖ To prepare the students for the placement by organizing personality development & soft skill programs.
- ❖ To conduct the foundation programs offered by various industries to give the professional exposure to students & to make them ready hands at the time of joining.

Students are also trained for Aptitude, logical reasoning to enable them for placement. Sessions are organized by HR personnel of various companies to make the students aware of current industrial trends and requirements.

Flow chart of training and placement activity





Departmental Training and Placement coordinators carry out different activities related to both training and placement. These include:

- ❖ Collection of data and CV's of each student.
- ❖ Registrations of students for placement to TPO email ID.
- ❖ Arranging for training activities to enhance Aptitude and soft skills, Arranging group discussions and mock interviews,
- ❖ Arranging Expert / guest lecturers of Industry personnel
- ❖ Arranging Industrial training

In addition to this, Institute takes initiative to motivate students for Placement, Higher Studies and Self Employment in different ways. Pre-placement training, Expert Lectures, Motivational sessions arranged by all departments. Seminars, Expert Lectures are arranged to aware students about Competitive exams like GATE, GRE and TOFEL etc. Students are motivated to be future entrepreneur by arranging various sessions by entrepreneurs.



Training and Placement Cell conducts different courses to improve placements:

- ❖ CAD/CAM Guru Solutions Pvt. Ltd. - Technical Training in CAD software for Mechanical students

List of students placed through Campus Placement

Sr. No.	Name of Contents	Name of Department / Academic Year		
		Civil Engg.		
		2021-2022	2020-2021	2019-2020
01	Total No. of students placed including off campus	22	06	04
02	No. of students going for higher studies	10	04	03
03	No. of students self employed	01	05	06
04	Total ( I + ii + iii)	25	26	15
05	Total students in final year	173	186	132
06	$\% \text{ placement} = \frac{i + ii + iii}{v}$	14.5	14	11



## b. Efforts and facilities to Improve Placements

Following are the Events / Activities conducted during A.Y. 2021-2022 to improve the placement is given below.

### 1. Activity conducted by T&P Dept.

Sr. NO.	EVENT/ ACTIVITY	Date/ Period	Dept	Academic Year
01	One week online pre-placement training	17/08/2021 to 25/08 2021	CIVIL	2021-22
02	Seminar on How to Ace an Interview	3/07/ 2021	CIVIL	2021-22
03	2 days online pre- placement training session(Group discussion and aptitude test )	25/06/2021 & 29/06/ 2021	CIVIL	2021-22

### Pre-Placement Activity

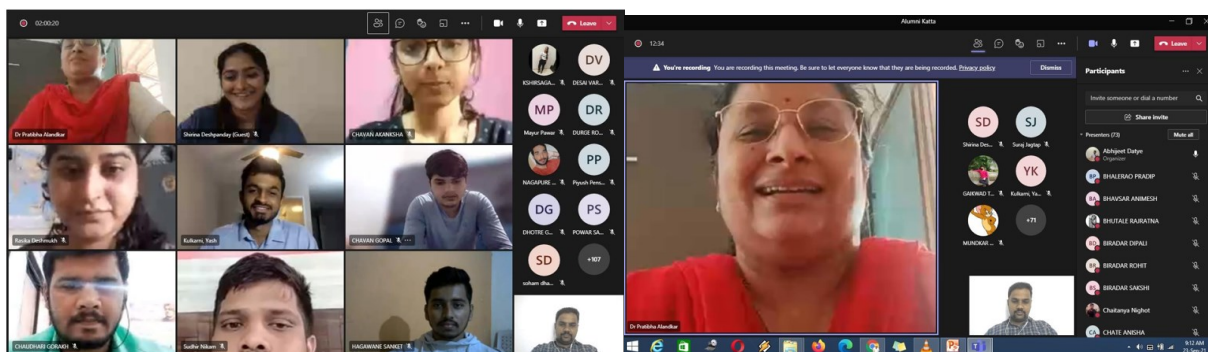
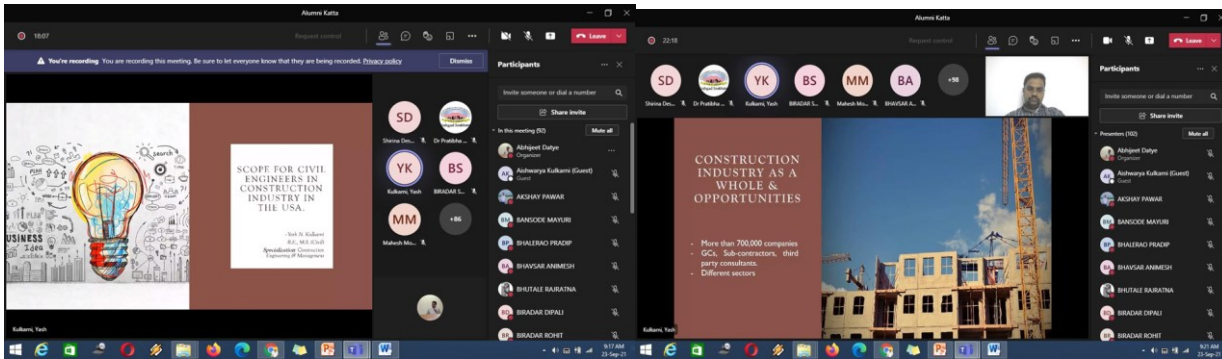


2. Activity conducted by respective department [A.Y. 2021-2022]

Sr. No.	Name of Department	Name of Topic	Name of Speaker	Organization	Type
01	CIVIL	Webinar on Scope for Civil Engineer in Construction Industry in USA	Yash Kulkarni	Asst. Project Manager, Corinthian Contractors INC(USA)	Webinar 23/09/2021
		Pre/Post Requisites for Master's Degree in abroad & further scope for Civil Engineers	Shirina Deshpanday	Project Engineer, L & D Constructions (USA)	Webinar 23/09/2021

Outcome: Students are motivated to have good communication skills and overall personality development and enhance interview skills

**Webinar Scope of Civil engineer in construction Industry**



## 10. Extra-Curricular Activities and Achievements

**Extra-Curricular Activities:** Sports outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene.

For the all-round development of the students, the institute encourages the students to participate in various sports/ tournaments at the university and state level, Sports, cultural activities, NSS etc.

- a) Sports:** To nurture the talents of students in different fields and for their all round development, a large number of sports activities are conducted to shape their personality and health and fitness. The institute provides facilities for both indoor and outdoor games to the students.
- i) **Outdoor Games:** A spacious playground is available for outdoor games like cricket, football, volleyball, basketball, badminton etc.
- j) **Indoor Games:** The institute also has an indoor area for playing chess, table tennis, carom and badminton etc.
- b) Gymnasium:** The institute has a gymnasium facility (Vadgaon Campus) for students to strengthen their physical & mental ability.
- c) Seminar Hall:** The institute has a modern, well-equipped seminar hall with audio visual equipment with power backup for conducting workshops, conferences, seminars, Alumni meet and various college events and functions.
- d) NSS:** The College has a NSS unit. The unit is started with an objective to cultivate an attitude of social service in the minds of students and to make them responsible citizens. Various socially relevant activities are being carried out like tree plantation, Swachhata Abhiyan camps, social awareness camps, blood donation camps, medical checkup camps. NSS report is available for the reference saperately.
- e) Cultural activities:** To bring out the hidden talents of the students and for getting tremendous exposure in interpersonal skills, team spirit, time management and delegating, the students are encouraged to participate and arrange various cultural activities. Every year an annual event **Sinhgad Krandak** is conducted where the students participate actively and enthusiastically in various competitions like singing, dancing, fashion show etc. Besides these, the students are also

encouraged to participate and have won several prizes in state level cultural events like Purshottam Karandak, Firodiya Karandak. Besides these events the students celebrate Teachers day, Engineers day, Dahi Handi and many other festivals.

- f) Communication Skills:** The institute conducts Student Training programs to help students to improve their communication skills, public speaking and practice of group discussions and interview. It also provides training on soft skills like Goal setting (Personal and Career), Personality and Stress management, behavioral skills, listening, reading (technical/ non-technical) writing resume, letter, report etc. The institute publishes college magazine "AKSHARBRAHMA" through which students learn to express themselves through technical/non-technical articles, poems etc.
- g) Technical skill enhancement:** An annual technical event is conducted every year for the students to promote innovative ideas, share and apply their technical knowledge. The students are encouraged to participate in various university levels, state level and international level events, to improve their technical knowledge and public speaking.
- h) Health and Hygiene:** The College maintains a medical center with a doctor to treat the students and staff for any minor problem. In-house team of housekeeping staff is appointed for day to day cleanliness and maintenance of the premises. The Yoga club has been formed for students to maintain good health, possess mental and emotional stability, and integrate moral values and to attain a higher level of consciousness.

Table shows the list of the number of students participated in different events.

Sr. No.	Name of Activity	No. of Students Participated			
		2021-22	2020-21	2019-20	2018-19
1	Go Kart Championship			22	21
2	Vinodottam Karandak			18	16
3	Firodiya Karandak			23	25
4	Techtonic 2020			47	
5	Technical Training	7			
6	Cultural Activity	8			
7	Cradzy Intercollegiate Management Event	4			
8	Spectrum 2020			170	
9	Sinhgad Karandak			80	75
10	Sinhgad Sports Karandak			62	
11	National Service Scheme (NSS)	100	100	100	100

Apart from that, various extra-curricular activities are taken by college where number of Student get platform to show their hidden talent.

Sr. No.	Name of Department	Name of Students / Team	Event Details	Achievement
01	CIVIL Engg.	Abhishek Mahajan, Shreenidhee Pawar,	Firodia Karandak 2022 Inter College Multi Arts Competition	Achieved Second Rank in Classical Group Dance
		Patil Krunal, Takale Ajay	Poster Presentation Competition-The topic of this year being "Current Fire burning issues". Freedom of imagination was the main key.	Achieved First Price
		Mr.Phuge kash Ashok Mr. Randive Sanket Sanjay	Make It and Break It competition-Students have to make bridge of size 60x10x10 cm by using 300 ice sticks, 1 cup fevicol, 1 scale and 1 cutter.	Achieved second Price
		Atharv Pingale	Rocketry - at Brazil	Achieved First Price
		Abhishek Mahajan, Shreenidhee Pawar	VEDANT 2022 Dance competition at B J Medical college	Second prize





**FIRODIYA KARANDAK 2022**



**VEDANT 2022 DANCE COMPETITION**



**BLOOD DONATION CAMP 15/03/2022 AT BHUKUM UNDER**



## 11. Weak and Bright Students Identification and Efforts.

a. Describe Process used for identification of weak and bright students-

- |  |   |
|--|---|
| 1. Internal Examinations like Unit Tests & Prelims | Students Securing less than 12 marks in Unit Test and 28/20 marks in Prelim |
| 2. Mock Practical Examinations                     | Conduction of Mock Practical/Oral Exam before one week of SPPU Exams        |
| 3. Previous Year University results.               | SE= 22.66%, TE=24.88%, BE=61.85%  |

b. Describe efforts to improve performance of weak students-

- |                                |   |
|--------------------------------|---|
| 1. Counseling of Slow learners | Providing Model solutions of Previous Question Papers, Assignments, Question Bank |
| 2. Remedial Classes            | Remedial Classes are conducted  |

c. Give the impact / outcome of the above efforts- Improvement in result.

d. State encouragements to bright students-

- |   |   |
|---|---|
| 1. Motivating fast learners to become University Toppers.   | Subject topics are brushed up with all respects such as competitive examination examples and GATE examples for students |
| 2. Counseling on Time management during exam and points to cover while writing answers to score good marks. | Chapter wise marks distribution is explained to score good and complete the paper with option within given time frame   |

Sr. No.	Class (2021-22)	Weak (Before Remedial action)	Weak (After Remedial action)	Bright (Before Remedial action)	Bright (After Remedial action)
1	FE	77	15	00	00
2	SE	19	06	09	02
3	TE	14	06	13	03
4	BE	16	04	19	02

## **11. Use of ICT facilities by teachers**

<b>Sr. No.</b>	<b>Name of Particular</b>	<b>Total</b>
01	i. No. of teachers arranging lectures	190
02	ii. Interactive Online lectures	190
03	1. No. of Lectures arranged	1890
04	2. No. of Teachers	190
05	3. Class / Courses for which lectures are arranged-FE SE,TE,BE	SE ,TE , BE
06	f. Any other e-resources used	
07	1. e- Resources used like Spoken tutorial	Coursera, Virtual Lab, You Tube , Spoken Tutorial NPTEL
08	2. No. of teacher using these facilities	190

### **a. Innovative Practices in Teaching & Learning**

Title	Period		No. of Participants
	From	To	
Case studies, Role Play, Small	Group Activities, Field visits		

## **12. Research projects**

Jan-2021 Sep-2022 350 NIL

Consultancy Projects- NIL

### **13. Workshops / Seminars / Conferences**

Workshops / Seminars / Conferences are organized to share knowledge and best practice from eminent personalities and experts, for inspiring and generate ideas and new thinking. Faculties are motivated to participate in FDP's, Training Program & online Certification course to strengthen their technical knowledge.

Aim: To equip faculty with recent trends and technology.

Objectives:

1. To provide an active platform for knowledge sharing.
2. To improve faculty's ability in carrying out research & Innovation.

Outcomes: It acts as a satiable step in adding professionalism to the curriculum & Research

- a. No. of Workshops / Seminars / Conferences etc - Arranged

<b>Name of Department</b>	<b>Title of Seminar</b>	<b>Period From – To</b>	<b>No. of Participants</b>
Civil Engg.	Excel for Civil Engineer : Basic Level	03/07/2021 to 07/07/2021	122
	Research : Design, publication and IPR	28/07/2021 to 30/07/2021	219
	Innovative trends in water resource and Hydraulic Engineering	09/08/2021 to 10/08/2021	513
	Structural Steel And Its Applications in Association INSDAG Kolkatta	02/09/2021	142
	Carrier opportunities after engineeri -ng in Association with Un-academy	06/01/2022	53
	Excel for Civil Engineer : Basic Level	03/07/2021 to 07/07/2021	40

- b. No. of Faculty participation in Seminars / Conferences / Symposia etc.

	<b>International Level</b>	<b>National level</b>	<b>State Level</b>	<b>Local</b>
Attended only	3	101	4	4
Presented Papers	1	4	0	0
Resource Person	0	0	0	6

### 3. FDP/STP/Train the Trainer (TTT)/ NPTEL Courses/ Industrial Training etc – Attended by faculty

Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period
Civil Engg.	Dr. Pratibha Alandkar	Modern Approach in Structural Engineering-2020	FDP	06/ 07/2020 to 10/07/2020
	Prof. Sumit R. Thakur	Earthquake Resistant Structural Systems and Design for Buildings and Structures	ATAL Academy Online Elementary FDP	07-06-2021 to 11-06-2021
		Fundamentals of Geotechnical and Structural Engineering for Sustainable Infrastructural Development	ATAL FDP	28-06-2021 to 02-07-2021
		Computational Intelligence in Earthquake Resistant Design	AICTE FDP	03-08-2020 to 08-08-2020
		Advanced Structural Analysis using Software	STTP ICT Mode NITTTR Kolkatta	09-08-2021 to 13-08-2021
		Earthquake Resistant Software	STTP ICT Mode NITTTR Kolkatta	15-06-2020 to 19-06-2020
		STTP on Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12-06-2021 to 16-06-2021
		Advances in Earthquake Resistant Design of Structures	STTP AERDS-2021) under TEQIP-III (Virtual STTP)	18-01-2021 to 22-01-2021
		Prof. Rahul D. Shinde	Safety in Construction	NPTEL AICTE FDP
		Implementation and execution of third year civil engineering 2019 pattern syllabus	SPPU FDP	7-09-2021 to 9-09-2021

<b>Name of Department</b>	<b>Name of Faculty</b>	<b>Title of Programme</b>	<b>Sponsored by</b>	<b>Period</b>
Civil Engg.	Prof. Rahul D. Shinde	Effective Teaching Methodology in Engineering Mechanics: Dynamics	SELF FDP	30-06-2021 to 1-07-2021
		Research Methodology, Research Publication & Patent Filing	NPTEL	11-02-2022 to 16-02-2022
		Machine Learning Applications in Civil Engineering	AICTE FDP	21-02-2022 to 25-02-2022
		Latest Trends of Research in Civil Engineering (online)	SELF FDP	9-03-2022 to 14-03-2022
		Advances in Special Civil Engineering Structures and Materials	ASCESM-20 STTP	9-03-2022 to 13-03-2022
	Prof. Ankita D. Bhonde	Hydrological modeling, climate change & soft computing application in water resource engineering	SELF FDP	23/08/2021 to 28/08/2021
		Implementation and execution of third year civil engineering 2019 pattern syllabus	SPPU FDP	13/01/2022 to 15/01/2022
		Machine Learning Applications in Civil Engineering	AICTE FDP	21-02-2022 to 25-02-2022
		Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12th July to 16th July 2021
	Prof. Abhijeet V. Datye	Advances in Concrete Construction and Techniques	SELF FDP	10th August 2021 to 15th August 2021
		Implementation and execution of third year civil engineering 2019 pattern syllabus	SPPU WORKSHOP	7th Sept. to 9th Sept. 2021
		Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12th July to 16th July 2021
		Research in Environmental Engineering & A way forward	ECA approved FDP	15 th to 20 th June 2020
		Implementation and Execution of third year engg. 2019 Pattern Syllabus	SPPU WORKSHOP	7 to 9 sept 2021

<b>Name of Department</b>	<b>Name of Faculty</b>	<b>Title of Programme</b>	<b>Sponsored by</b>	<b>Period</b>
Civil Engg.	Prof. Sudhir S. Nikam	Online Teaching Syllabus of TE civil 2015 Pattern	SPPU WORKSHOP	1 to 3 july 2020
		Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12-06-2021 to 16-06-2021
	Prof. Sneha Bhende	Research Methodology, Research publication & Patent Filing	ISTE approved STTP	11/02/2022 to 16/02/2022
		Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7 to 9 sept 2021
		Advance in Design and Construction of Tunnels	workshop	21/02/2022 to 25/02/2022
	Prof. Swati B. Kshirsagar	Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12-06-2021 to 16-06-2021
		Machine Learning Applications in Civil Engineering	AICTE FDP	21-02-2022 to 25-02-2022
	Prof. Mahesh J. Mohite	Research: Design Publication & IPR	workshop	12-06-2021 to 16-06-2021
	Prof. Neha B. Sasane	Enhancing Research Capabilities and Technical Education"	SELF FDP	08/02/2021 to 13/02/2021
		Structural Health Monitoring, Retrofitting & Rehabilitation" ISTE approved STTP	ISTE approved STTP	12-06-2021 to 16-06-2021
		Innovative Trends in Water Resources & Hydraulic Engineering RMDSSOE	SELF FDP	28th to 30th July 2021
	Prof. Patil Surekha S.	Laboratory Practice on Civil Engineering Materials – Concrete	STTP NITTTR Kolkatta	13/12/2021 to 17/12/2021
		Structural Health Monitoring, Retrofitting & Rehabilitation"	ISTE approved STTP	09/09/2021 & 10/09/ 2021
		Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7 to 9 sept 2021
		Innovative Trends in Water Resources & Hydraulic Engineering	WORKSHOP	28th to 30th July 2021
	Prof. Pooja S. Sonawane	Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7th to 9th sept 2021

<b>Name of Department</b>	<b>Name of Faculty</b>	<b>Title of Programme</b>	<b>Sponsored by</b>	<b>Period</b>
Civil Engg.	Prof. Pooja S.Sonawane	Training Program on compressive disaster management	SELF FDP	12-06-2021 to 16-06-2021
	Prof. Sushma R. Awad	Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7 to 9 sept 2021
		Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12-06-2021 to 16-06-2021
		Design of RCC Structure	ISTE approved STTP	7/7/2020 to 12/7/2020
		smart & sustainable Infrastructure development	ATAL FDP	20/12/21 to 24/12/21
	Prof. Sagar K. Sonawane	Research: Design Publication & IPR	SELF FDP	09/08/2021 to 10/08/2021
	Prof. Suraj W. Jagtap	Smart & Sustainable Infrastructure Development for New India"	SELF FDP	7/09/21 to 9/09/21
		Structural Health Monitoring, Retrofitting & Rehabilitation	ISTE approved STTP	12-06-2021 to 16-06-2021
		Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7 to 9 sept 2021
		Recent trends in Civil Engineering	STTP	25 to 29 Oct 2021
	Prof. Rahul D. Kapase	Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU WORKSHOP	7 to 9 sept 2021
		Structural Health Monitoring, Retrofitting & Rehabilitation" ISTE approved STTP	ISTE approved STTP	12-06-2021 to 16-06-2021
		Hydrological Modeling, Climate Change and Soft Computing Applications in Water Resources Engineering"	STTP	23/08/2021 TO 27/08/2021
		Innovative Trends in Water Resources & Hydraulic Engineering	WORKSHOP	9/08/2021 TO 10/08/2021

<b>Name of Department</b>	<b>Name of Faculty</b>	<b>Title of Programme</b>	<b>Sponsored by</b>	<b>Period</b>
Civil Engg.	Prof. Aparna H. Chavan	Structural Health Monitoring, Retrofitting & Rehabilitation" ISTE approved STTP	ISTE approved STTP	12-06-2021 to 16-06-2021
		Advances in Geotechnical Engineering and Reliability of Structure	STTP	23-27 Aug,2021
		Structural Health monitoring and rehabilitation of structure	STTP	10-15 may 2021
		Innovative Trends in Water Resources & Hydraulic Engineering	WORKSHOP	9-10 Aug,2021
		Structural Health monitoring , Retrofitting and rehabilitation of structure	STTP	12-16 July 2021
		Machine Learning	STTP	21-25 Feb,2022
		Research Opportunities & Innovation in Civil Engineering	WORKSHOP	20-21 may,2022
		Advancement in Civil Engineering	SELF FDP	23-27 Aug, 2022
	Ms. Janhavi K Mahale	Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU FDP	13/01/22to 15/01/22
		sustainable construction materials and technology	SELF FDP	21/02/22 to 25/02/22
		6th National Convention on Ferrocement (FS - 2021)	FERROCEMENT SOCIETY FDP	11/2/22 to 16/2/22
		Latest Trends in Structural Repairs and Retrofit India	WORKSHOP	13/01/22- 15/01/22
		Research Methodology, Research Publication and Patent Filing	STTP	1/02/2022 to 16/02/2022
	Prof. Amrutraj B. Khemalpure	Implementation & Execution of T.E Civil Engg. 2019 pattern syllabus	SPPU FDP	13/01/22 to 15/01/22
	Mr. Amit Sodmise	Research Methodology, Research Publication and Patent Filing	SELF FDP	11 Feb, 2022 to 16 Feb, 2022



#### 4. FDP/STP/TTT etc -Arranged

Name of Department	Name of the faculty	Title of the Programme	Period
CIVIL	Prof Sneha S Bhende	Structural Health Monitoring,Retrofitting and Rehabilitation	12.07.2021 to 16.07.2021

#### 5. MOOC (Massive Open Online Courses) in SWAYAM with Certification by NPTEL – AICTE

Name of Department	Name of the faculty	Title of the Programme	Period
Civil Engg.	Prof. Rahul D. Shinde	Safety in Construction	1-02-2022 to 15-04-2022
	Prof. Rahul D. Shinde	Research Methodology, Research Publication & Patent Filing	11-02-2022 to 16-02-2022

#### 15. Research publications in Journals notified on U.G.C. Website

Aim	Objectives	Outcome
To publish research papers on the basis of research carried out for self-advancement in reputed journals	1. To encourage faculty to do research work by referring reputed journals. 2. To enhance the knowledge of faculty in recent trends and innovations.	It will encourage the staff to do more research-oriented work and it will help them for their career advancement.

## 16. Active Memorandum of Understanding

MOUS are signed with industry to bridge the gap between Industry and Academia. The Institute has signed MoU's with several industries and Institutes of repute. Faculty and students benefit from these MoU's as they are being exposed to enriched programs.

**Aim:** To establish and promote a strategic and cooperative partnership

**Objectives:**

1. To increase Industry Institute interaction to bridge the gap between industry and Academia.
2. To provide platform to the students to work on live industry environment..

**Outcomes:** Providing Internship, Training & Live Projects, Seminar, Workshops, Competitions etc.

<b>Name of Department</b>	<b>Name of the MoU</b>	<b>Name of the Industry / Organization</b>	<b>Purpose</b>	<b>Outcome</b>
Civil Engineering	Civil Software Training	M/s Software Academy for Civil Engineers	Strengthen & Impart a deeper understanding & application of the concepts & practice of Engineering Design	Boost career opportunities & build their experience through a project focused learning experience
	Civil Software Training	Blueprints Design Consulting Services Pvt. Ltd. (BDCSPL)	Awareness about the various software	Better employability, Industry awareness, Validate their skills.
<b>Name of Department</b>	<b>Aim</b>	<b>Objectives</b>	<b>Outcome</b>	
Civil Engg.	The purpose of MoU is to have mutual intentions to jointly work on construction projects required for industries and research needs, with learned faculty of good industrial experience and promising students, jointly agree to exchange their expertise for mutual benefit and growth, on the areas specified.	Sharing the industrial/technical knowledge with students. Provide Internship to students by providing them to work on live projects. To provide placement opportunities to students.	Students got internship through MOU. Students got Sponsorship for the Project through MOU.	

### MOU with Software Academy for Civil Engineers, pune



### MOU with BLUEPRINTS DESIGN CONSULTING SERVICES Pvt. Ltd., Pune



## 17. Patents

A Patent is a statutory right for an invention granted for a limited period of time to the patentee by the Government, in exchange of full disclosure of his invention for excluding others, from making, using, selling, importing the patented product or process for producing that product for those purposes without his consent.

Intellectual Property Rights is an inevitable tool for today's globalized economy. Fostering innovation is one of the sustainable development goals set by the Government of India. "An India where Intellectual Property stimulates creativity and innovation for the benefit of all".

The term of every patent granted is 20 years from the date of filing of application. However, for application filed under national phase under Patent Cooperation Treaty (PCT), the term of patent will be 20 years from the international filing date accorded under PCT..

Advantages of patents:

- ❖ A patent gives you the right to stop others from copying, manufacturing, selling or importing your invention without your permission.
- ❖ You get protection for a pre-determined period, allowing you to keep competitors at bay.
- ❖ You can then use your invention yourself.

<b>Name of Department</b>	<b>Aim</b>	<b>Objectives</b>	<b>Outcome</b>
Civil Engg.	To get the recognition for the innovative and new technique or technology through patenting	1.To encourage the faculties/ students for patent/ copyright registration 2.To promote entrepreneurship/ self-employment through patenting. 3.To create research-oriented culture in the institute.	US Patent is published and 2 patents are registered and are in process of publication

#### **Description of Department wise Patents:**

<b>Sr. No.</b>	<b>Department</b>	<b>Name of Student/ Faculty</b>	<b>Patent Title</b>	<b>Patent Registration Date</b>	<b>Date of Publishing the Patent &amp; Publication</b>	<b>Patenting Authority</b>	<b>Type of Patent</b>
01	Civil Engg	Prof Sneha S Bhende	Prediction & Recommendation system using seismic waves & wind map analysis for architectural development	20/10/2022	In Process	Koneru lakshmaiah education foundation, India	NA

#### **18. Faculty with Ph. D. Qualification**

<b>Name of Department</b>	<b>Total No. of Faculty</b>	<b>No. of Faculty with Ph. D.</b>	<b>No. of Faculty pursuing Ph. D.</b>
Civil Engg.	23	1	9

## 19. Faculty Associated with University Work

a. Various University bodies, BOS Senate etc.

<b>Name of Department</b>	<b>Various University bodies, BOS Senate etc.</b>
Civil Engg.	01
<b>Total</b>	<b>01</b>

b. Syllabus Preparation, Modification etc.

<b>Name of Department</b>	<b>Various University bodies, BOS Senate etc.</b>
Civil Engg.	01
<b>Total</b>	<b>01</b>

## 20. Self-Appraisal

Self-Appraisal is an act or instance of evaluating one's own worth, significance, or status: appraisal of oneself a positive self-appraisal the process of self-appraisal an employee self-appraisal form.

Appraisal systems measures the employee performance against previously-agreed goals, set future objectives and give staff guidance on their developmental and training needs. They help managers identify both achievements and shortfalls in performance, and give a framework to guide future improvements.

Basically, the Appraisal in Sinhgad Institutes is done on the following four points:

1. Student Concentric Activities (SCA) [100 Marks]
2. Professional Development And Academic Contribution (PDAC) [100 Marks]
3. Research Contribution (RC) [100 Marks]
4. Evaluation by H.O.D./ Principal [100 Marks]

Based on the self-appraisal points given by the staff it is evaluated by the H.O.D. by verifying the all necessary documents and the final assessment i.e. Performance Indicator is sealed based upon the self and HOD evaluation.

The faculty members whose performance indicator score is more than 60 are given the appraisal note to motivate them to do better in future and the faculty members whose performance indicator score is less than 40 are given a warning note so as to improve their

performance in next academic semester/year.

**Aim:** To motivate the faculty members to get best performance for student's and self-growth

**Objectives:**

1. To encourage the faculties to participate/ organise more and more workshops/conferences/seminars
2. To encourage the faculties to publish their research work in well known publications
3. To create research-oriented culture in the institute.

**Outcomes:**

1. Maximum number of faculty members are getting the Performance indicator more than 50 in the academic year
- Analysis of Faculty Appraisal System:

No. of Incubation centers created – Start-ups incubated

Incubation centers primarily focus on providing boost to entrepreneurial development. Value-added program act as a bridge which fills the gap between the formal education and the industry demands. The value added program is introduced for holistic development of students through academic flexibility. Student Training Program helps students for overall development of students.

**Aim:** To provide additional technical training, with the primary objective of improving the employability skills of students

**Objectives:**

5. To improve employability skills of students to provide students an understanding of the expectations of industry.
6. To provide platform to the students to work on live industry environment.

**Outcomes:** The students were aware about the various technologies used in the Industry.

Sr. No.	Name of the Student	Start-Up Details	Contact No.	Establishment Year
1	Mr. Viraj Tambe	Shri Kedareshwar Enterprises	virajtambe@gmail.com	2021
2	Mr. Rahul Pandharinath Dumbre	Shree Samarth Construction	rahuldumbre123@gmail.com	2021

Skill development programs conducted.-STP I, II, III, IV & V etc.

Student Training Program-I,II, III

Class	Module name	Staff name	Contents Delivered	Date	Students present
<b>Civil Engineering</b>					
SE	STP I	Ms. Sneha Bhende, Ms. Ankita Bhonde	Module 1 to 10	25/9/2021,1/10/2021,9/10/2021,16/10/2021,23/10/2021	56,57,45,59,52,65,58,44,60,52
SE	STP 2	Ms. Sneha Bhende	Module 1 to 4	25/02/2022,11/03/2022,25/03/2022,08/04/2022	119,123,116,118
TE	STP 3	Mr. Mahesh Mohite, Mr. Summit Thakur, Mr. A. V. Datye	Module 1 to 3	13/09/2021,20/09/2021,23/09/2021,27/09/2021	94,86,96,98
TE	STP 4	Ms. Sneha Bhende, Mr. R D Shinde		25/02/2022,11/03/2022,25/03/2022	113,114,122

Department	Aim	Objectives	Outcome
Civil Engg.	To provide additional technical training, with the primary objective of improving the employability skills of students	To improve employability skills of students To provide students an understanding of the expectations of industry.	The students were aware about the various technologies used in the industry.



**DEPARTMENT OF CIVIL ENGINEERING STUDENT TRAINING PROGRAMME(STP)**



## ❖ Strength

### Affiliation to Savitribai Phule Pune University.

- Good academic performance.
- Experienced and qualified faculty and their retention.
- Transparent, conducive and collaborative work environment. Innovative teaching-learning practices.
- Sprawling 10 acre campus and infrastructure.
- Well-equipped library with adequate collection of books and e-resources.
- Effective implementation of VAPs, and STPs.
- Good placement record.
- Teacher guardian scheme.
- Promoting staff to do Ph. D. Industry Institute Interaction Cell.
- Under the aegis of the society which offers quality education for the past 24 years.
- Accessible location.

## ❖ Opportunities

- There is scope for an inter-disciplinary and collaborative research.
- To become center of excellence in renewable energy and Wireless Sensor Networks.
- Development of e-learning resources.
- Networking and strengthening relationship with stakeholders.
- Induction of faculty with Ph.D qualification. Proximity to IT & Automobile industry hub for networking and partnership.

## ❖ Challenges

- Increasing the number of placements with higher perks.
- Bridging the gap between academia and industry.
- Attract meritorious students.

## ❖ Future Plan

### Industrial based research project for UG/PG/Ph.D.

- Employment oriented certification courses; considering industrial requirement.
- Enhancement in Training & Placement activities.
- Industrial training to students and faculties.
- Need based courses in association with industry and institutes.
- Innovative Research, Publications and Patents
- Upgrading laboratory facilities to promote research.



## **RMD SINHGAD TECHNICAL INSTITUTES**

### **CAMPUS**

(Approved by AICTE:Govt. of Maharashtra; Affiliated to Savatribai Phule Pune University)

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