



Sinhgad Institutes

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

NAAC accredited with "A" grade



**ANNUAL
REPORT
2021-22**

Academic Year 2021-22

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INFORMATION OF THE DEPARTMENT

A.Y.2021-22 for IQAC Meeting

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

Date of Report: **20th March 2020**

Accreditation Grade : **A**

Date of Accreditation: **27th 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	Computer Engg.	Yes	Online feedback is taken from students on course delivery to get the rating of faculty.	Faculty members are counseled for further improvements as per student feedback.

b) Employers/ Industries

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Action for Improvement
01	Computer Engg.	Yes	i. Overall positive feedback from employers	NIL

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	Computer Engg.	Yes	i. Overall excellent feedback from Alumnis	NIL

d) Parents

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions [if Yes, write comments]
02	Computer Engg.	Yes	i. Overall Positive Feedback from Parents . They are happy with the teaching learning environment & Placement activities of the department.

e) Teachers

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Overall performance of the students	Laboratory	Any Recommendation to BOS
01	Computer Engg.	Yes	Faculty members are satisfied with University, Institute & Department Academic Practices	Satisfactory	Satisfactory	

The college aims to offer the best possible environment and learning experience to encourage students to perform to their full impending 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	Comp. Engg.	VAP on Project Life Cycle	Ms. Vina Lomte	10/8/2021	10/8/2021	92
		VAP on Mathematical modeling	Ms. Vina Lomte	3/12/2021	3/12/2021	15
		Data Science	Ms. Vina Lomte	16/03/2022	16/3/2022	98

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. 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.

Sr. No.	Name of Branch	No. of Projects	No. of Students Enrolled for Projects	Prominent Industries Sponsoring the Projects
01	Comp. Engg.	02	08	Interstellar Scientific Pvt. Ltd

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.

3. 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.^{2,3} 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	Comp. Engg.	SE	33

4. 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.

Name of Student	Name of Industry	Specialization Area	No. of days
Rishikesh Mahajan	College finder	Data Science& research Operations	60
Priyanshu Singh	Icertis Solutions	Solution Engineering	180
Piyusha Anand Patil	Engineers Cradle	Web Development	60
Niraj Chavan	iAastha Technologies.	Software Developer	180
Rushikesh P.Wanjale	Dhapare Solutions	Software Developer	90
Akshay Ravindra Raghuwanshi	Suven Consultants & Technology Pvt. Ltd	Java Coding	30
Shivraj Sambhaji Khadepatil	Shiash Info Solutions Private Limited	PYTHON Programming	90
Nimish Sachinkumar Chougule	Cummins India Limited	Web Development	45
Kevin Sheth	Cummins India Limited	Web Development	45
Apurva Pingale	Cyntralabs	Software Developer	270
Shivani Sank	Livasys IT solutions	Web Development	90
Sonali Venkatesh Deshmukh	Solstrom Energy Solutions pvt ltd	Website Developer	60

Prem Dwarka Khandelwal	Kudosware	Android Developer	90
Abhishek Nivrutti Jagtap	CDK Global	Software Developer	360
Vishal Vijay Chumbalkar	Elite Softwares	Website Development	45
Modhale Nana Balu	Elite Softwares	Website Development	45
Sakshi Ramchandra Patil	Elite Softwares	Website Development	45
PUSHKARAJ SANJAY NAIK	Elite Softwares	Website Development	45
Dheeraj Sukhdev Bhor	Elite Softwares	Website Development	45
Pratiksha Deepak Kul	Elite Softwares	Website Development	45
Siddhesh Kale	Elite Softwares	Website Development	45

Shreyas Sambhaji Sukale	Elite Softwares	Website Development	45
Aniket Baliram Khatke	Elite Softwares	Website Development	45
Sayali Waman Pawar	Elite Softwares	Website Development	45
Atharva Shrikant Kulkarni	Elite Softwares	Website Development	45
Kajal Lahu Pawar	Elite Softwares	Website Development	45
Ishwar Chanvirgouda Gulanagoudar	Elite Softwares	Website Development	45
Devika jayant pawar	Elite Softwares	Website Development	45
Kadri Ruman	Elite Softwares	Website Development	90
Vedika Pradeep Patgaonkar	Elite Softwares	Website Development	45
Tanishka Sinha	Elite Softwares	Website Development	45
Pranita Bharat Kshirsagar	Elite Softwares	Website Development	45
Rutuja Rajendra Sarvade	Elite Softwares	Website Development	45
Samidha Vijay Dhamale	Elite Softwares	Website Development	45
Sayali Waman Pawar	Elite Softwares	Website Development	45
Palash Dandge	The Spark Foundation	Data Science & Business Analytics	60

Yash Arvind Paliwal	Elite Softwares	Website Development	45
Parth Rahul Mangalkar	Elite Softwares	Website Development	75
Mayur Uttam Pansare	Elite Softwares	Website Development	45
GAUR AJAY MAHESH	Elite Softwares	Website Development	90
Ganesh Namdeo Bhagat	Elite Softwares	Website Development	45
Ashwini Babu Bansode	Elite Softwares	Website Development	45
Chalak Priyanka Kamlakar	Elite Softwares	Website Development	45
Vaishali Badde	Elite Softwares	Website Development	90
Shweta shesherao ambegave	Elite Softwares	Website Development	45
Jay Abhay Jagtap	Elite Softwares	Website Development	45
Abhijeet Sandip Pachpute	Elite Softwares	Website Development	60
ABHISHEK SANJAY POWAR	Elite Softwares	Website Development	60
Aryaman Kirankumar Nasare	Elite Softwares	Website Development	45
Apurva Pingale	Elite Softwares	Website Development	60
Mayuri Wadshingikar	Elite Softwares	Website Development	45
Harsh Deshpande	Elite Softwares	Website Development	45
Aditi Parikshitee Batwal	Elite Softwares	Website Development	45
Pankaj Tukaram Bhise	Elite Softwares	Website Development	45
Manjeet kour	Elite Softwares	Website Development	45
Gaurav Durgude	Elite Softwares	Website Development	45
Akash Chandrakant Sabale	Elite Softwares	Website Development	45
Shifa Khan	Elite Softwares	Website Development	45
Komal Rahul Borkar	Elite Softwares	Website Development	45
Jiya shakur shaikh	Elite Softwares	Website Development	60
Arjun Jadhav	Elite Softwares	Website Development	60

NEHAL SUNIL RENUSE	Elite Softwares	Website Development	45
Sakshi Anil Kumbhar	Elite Softwares	Website Development	45
Aditya Sandeep Sanap	Elite Softwares	Website Development	45
Minal Suresh Jagtap	Elite Softwares	Website Development	45
Sourabh Anil Patole	Elite Softwares	Website Development	45
Mahesh Sapate	Elite Softwares	Website Development	45
Kadri Ruman	Elite Softwares	Website Development	90
Tushar Rajendra Kamble	Elite Softwares	Website Development	45
RASKAR ATHARVA LAXMAN	Elite Softwares	Website Development	45
Bhagyashree Minanath Khandagale	Elite Softwares	Website Development	45
Dimpal Sanjay Patil	Elite Softwares	Website Development	45
ANIKET BHANUDAS MANJARE	Elite Softwares	Website Development	45
Sairaj Sanjay Bankar	Elite Softwares	Website Development	45
Pratik Kale	Elite Softwares	Website Development	45
shubham sanjay kamble	Elite Softwares	Website Development	45
Kadambari Jalindar Kate	Elite Softwares	Website Development	45
Dhruv Kale	Elite Softwares	Website Development	45
Kadambari Santosh Deshmukh	Elite Softwares	Website Development	45
Shrivatsa Sheshadri Desai	Elite Softwares	Website Development	45
Pankaj Tukaram Bhise	Elite Softwares	Website Development	45
Shravani Surendra Chandratre	Elite Softwares	Website Development	45
Prachi Shriram Pachang	Elite Softwares	Website Development	45
Krutika Gholap	Elite Softwares	Website Development	45
Aniket Sonyabapu Athare	Elite Softwares	Website Development	45
Nachiket Suhas Chaudhari	Elite Softwares	Website Development	60
Anushka Suhas Joshi	Elite Softwares	Website Development	90

Siddhi Santosh kulkarni	Elite Softwares	Website Development	90
Aniket Baliram Khatke	Elite Softwares	Website Development	90
Akanksha Ramchandra Bodekar	Elite Softwares	Website Development	45
Krutadnya Shende	Elite Softwares	Website Development	45
Darshan Appa Derle	Elite Softwares	Website Development	90
Sejal Narendra Raotole	Elite Softwares	Website Development	45
MAYURI SANJAY ZADE	Elite Softwares	Website Development	60
ANVITA SANJAY KARNE	Elite Softwares	Website Development	45
Anushka Rajendra Chaudhari	Elite Softwares	Website Development	45
Jayesh Kailas Sukale	Elite Softwares	Website Development	60
Manas Amol Mendhekar	Mahesh Vidhyalaya shevdi	Software Developer	90
Abhishek Ramesh Patil	Mahesh Vidhyalaya shevdi	Software Developer	90
Manavkumar Patel	Turnkey Tech	Software Developer	60
Atharva Vilas Wankhede	Datametica Solutions Private limited	Associate Engineer	300
Swapnil M. Navale	Datametica Solutions Pvt Ltd	Associate Engineer	210
Pratik Narsing Jadhav	eQ Technologic	Software Development	90
Mohit Ratnakar Magare	Cognizant Technology Solutions India Pvt. Ltd.	Programmer Analyst	180
Dnyanraj Prakash Deshpande	Cognizant Technology Solutions India Pvt. Ltd.	Programmer Analyst	180
Patil Sejalben Nathubhai	Cognizant	Programmer Analyst	120
Kadri MohamedRuman Makbulhusain	Cognizant	Programmer Analyst	120
Sanskriti Uday Kashid	Cognizant	Programmer Analyst	150
Tanmay Sandeep Pawar	The Sparks Foundation	Data Science and Buisness Analytics	30
Kunal Sunil Gajmal	The Sparks Foundation	Data Science and Buisness Analytics	30
Suraj Sunil Bhosale	The Sparks Foundation	Data Science and Buisness Analytics	30
Suraj Sudhakar Gutte	BitMap Technology, Pune	Software Development and Machine Learning	180
Atharv Sajay Deshpande	Magicflare software services	Software Development	90
Naman Jain	Awrange Digital Solutions LLP	Web Developer	90

Snehal kalebag	Initbit technologies	Software Development	90
Rohit Parshuram Kanade	Shaish Info Solution Pvt Ltd	Web Developer	90
Aditya Ashok Sanap	Accenture	Web Developer	30
Ishika Pandya	Cyntralabs	Software Development	180
Prajakta Prashant Dhakate	Vodafone Idea	Web Developer	90
Siddhant Tyagi	Intelect.ai	Buisness Development	90
Komal Balasaheb Barve	Wolters kluwer	Buisness Development	150
Onkar Yuvarj Kalshetti	Datametica Solutions Private Limited	Associate Engineer	180
Aman Talbhandare	Cognizant	Programmer Analyst	360
Sarthak Dipak Lad	Wipro	Software Development	90
Anchal SunilKumar Biyani	Wipro	Software Development	90
Arjun Sambhaji Jadhav	WIPRO Technologies	Software Development	90
Atharv Vidhyadhar Deshmukh	WIPRO Technologies	Software Development	90
Rohit More	Persistent Systems	Academic Intern	180
suraj lahukumar sutar	Persistent Systems Limited	Academic Intern	180
Nikita Bhoskar	Vodafone Idea Limited	Software Developer	90
Sakshi Anil More	Vodafone Idea Limited	Software Developer	90

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

5. 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)

The details of Professional Society / Chapters department wise are given below.

Sr. No.	Name of Branch	Name of the Professional Society / Chapters etc	No of Students Participated	Activities
01	Comp. Engg.	CSI Students chapter	40	Cloud Literacy Day

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	Comp. Engg.	Darpan 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



Sinhgad Technical Education Society's
RMD Sinhgad School of Engineering, Pune 411058
DEPARTMENT OF COMPUTER ENGINEERING

Volume-VI
2020-21

दूरध्वनि-2021

FROM THE CHAIR OF STES'S



Prof. M. N. Nevale
President

Sinhgad Technical Education Society was our humble effort to bring education to more people. Education that they need. Education that they desire for. Education that is now within their reach. Everywhere you look, you see a young mind creating a new future for the world. In his fertile imagination, he has no obstacles. He knows there is a guide nearby who will hold his hand if he were to miss a step. He is free to foresee a world better than what you and I have made. I am very happy that RMDSSOE, Computer Engineering department is publishing their fifth edition newsletter "दूरध्वनि-2021". I wish all the faculty members and students very best in their future endeavors.

FROM THE CHAIR OF INSTITUTE

The RMDSSOE 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 in ways which have 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. We are very happy to support and motivate student and staff members of department for "दूरध्वनि-2021". We wish them all the best in their future endeavors.



Dr. V. V. Dixit
Principal/Director

FROM THE CHAIR OF ACADEMIC DEAN



Dr. Sharad S. Mulik
Dean Academics

RMDSSOE has taken a number of steps to improve the overall Academic climate of the institute. The biggest challenge for today's engineering educational institutions 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 and activities.

FROM THE CHAIR OF DEPARTMENT

Software industry is one of the largest growing sectors of Indian industry for the last two decades. We aim at creating software engineers with high caliber and technical expertise. The department strives to make learning more creative, interactive and information driven by using state of the art technology. The department prepares students to face challenges in industry as well as society and to excel in higher education and research. The department inculcates professional ethics, effective communication skills, teamwork skills and multi-disciplinary approach among the students.



Mrs. Vina Lomte
HOD, COMP



VOLUME VI
2021-22

Sinhgad Institutes

क्षितिज-२०२२

The Technology Beyond Horizon...



6. 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.

MBA: Separate mentoring system exists for MBA I and MBA II year students. There are total 3 divisions for MBA I. Each class has two mentors. All the mentors maintain students' academic record, attendance record and student/ parent calling record. Mentor-Mentees meeting is conducted once in a month and academic issues, examination, participation in extra-curricular and co-curricular activities are discussed. Students are also given placement guidance and skill enhancement guidance. Student Teacher Meetings are conducted with specific agenda. Meeting record along with minutes of meetings are maintained separately. Parent calling record about their ward's performance and academic activities is maintained separately.

Following are the few of questions to be addressed depending upon the individual students.

Improvement in academic performance of students:

- ❖ What are the difficulties of students, if not performing well in Exams?
- ❖ Does a student attempt the question paper 100%? Insist on him, that s / he attends full.
- ❖ Is s /he in mindset of keeping a drop for a particular paper? Why? Discourage him to do so.
- ❖ Does a student only read or he practices solving questions by writing the answers? Does s/he prepare notes?
- ❖ Does s/he follow standard books? Is he /she referring previous question papers of University / Unit Test Exams?
- ❖ What change in working practices are necessary for improvement in his / her result?
- ❖ How is his / her attendance?

Co-curricular activities / Extracurricular: -

Is he/she participating enthusiastically in co-curricular activities happening?

Is he/she involved in Lab innovations, Technical Paper writing, attending workshops-seminars- conferences- industrial visit etc ? If not, why?

Is he/she able to plan his time for overall involvement of all activities of his interest?

Is he/she giving some time for his hobby, a game or recreation activities for him / her self?

Is he/she socially connected with friends, teachers and others and finds pleasure it?

Is he/she able to involved in at least one or two activities related to vocational training / placement or any other activity giving him her opportunity of Industry interface?

Personal:

Is he able to keep good health, relationship with his family, friends and college-mates?

His personal life in hostel is healthy or not?

Is his family background supporting or not?

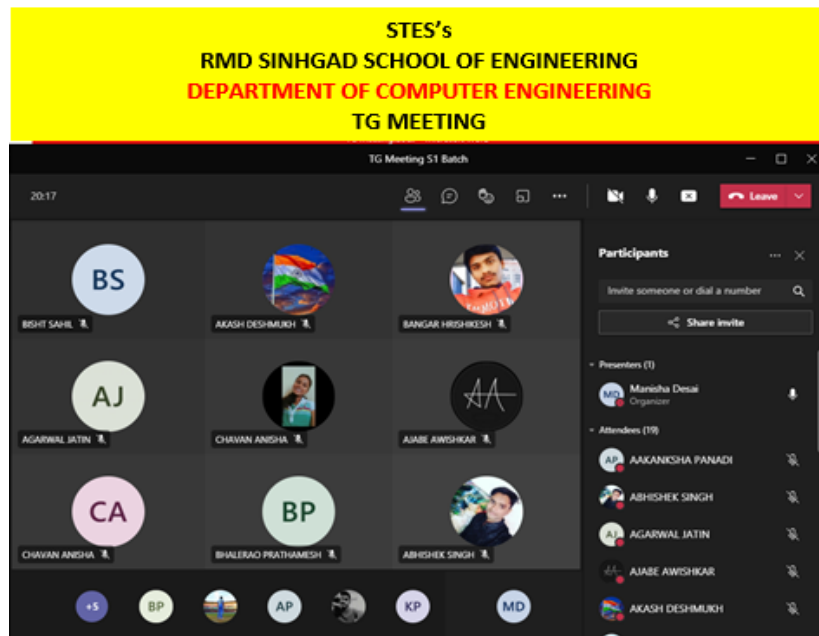
Any other issue related to upbringing of the students?

Any suggestions of students ongoing

programmes? Any other issue related to upbringing of the students?

Any suggestions of students on going programmes?

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



7. Give the Percentage of university results without backlog / ATKT for the last four years

% Result =

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

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

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

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	Comp. Engg.	SE	97.76	2.23	100	0	100	0	50.41	97.52	50	94.77
		TE	97.71	2.28	100	0	75.18	25.54	79.70	97.16	75.57	96.18
		BE	98.77	1.23	100	0	100	0	98.57		97.74	

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

BE	
Total students	162
No of pass	160
% age result	100
Distinction	154
First class	6
Higher second class	0
Second class	0
Pass Class	0
No. of Fail Students	0
TE	
Total students appeared	179
No of All Clear Students	171
% age all clear result	100
Distinction	171
First class	0
Higher second class	0
Second class	0
Pass class	0
No. of fail students	0
SE	
Total students appeared	179
No of All Clear Students	175
% age all clear result	98
Distinction	160
First class	8
Higher second class	1
Second class	0
Pass class	0
No. of fail students	4

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.

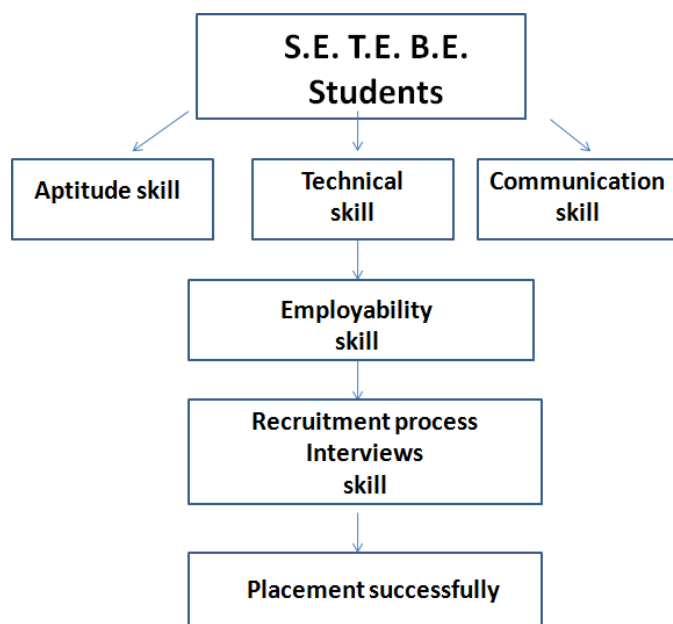
Training and placement office with ample space, furniture, computers, video conferencing for online interviews for students is provided.

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	Computer Engg.		
		2021-2022	2020-2021	2019-2020-
01	Total No. of students placed including off campus	103	92	92
02	No. of students going for higher studies	0	2	06
03	No. of students self employed	0	0	0
04	Total (I + ii + iii)	103	94	98
05	Total students in final year	162	139	142
06	$\% \text{ placement} = \frac{i + ii + iii}{v}$	63.58	67.62	69.01



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	COMP	2021-22
02	Seminar on How to Ace an Interview	3/07/ 2021	COMP	2021-22
03	2 days online pre- placement training session(Group discussion and aptitude test)	25/06/2021 & 29/06/ 2021	COMP	2021-22

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

Sr. No.	Name of Department	Name of Topic	Name of Speaker	Organization	Type
01	COMP.	Placement Awareness Seminar on 23rd March 2022	Dr. J.L Minase	RMDSSOE	Seminar

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



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	Comp Engg.	Anuradha Jahagirdar	Firodia Karandak 2022 Inter College Multi Arts Competition	Achieved Second Rank in Classical Group Dance



FIRODIYA KARANDAK 2022

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. Counselling 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. Counselling 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

12. Use of ICT facilities by teachers

Sr. No.	Name of Particular	Total
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	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 Small Group Activities, Field visits	Play,		Jan-2021 Sep-2022 350

13. Research projects – NIL

- a. Consultancy Projects- NIL

14. 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

Name of Department	Title of Seminar	Period From – To	No. of Participants
Computer Engineering	Workshop on "Introduction to Google Crowd source"	14/8/2021	50
	Seminar on "How to Face an Interview"	7/6/2021	67

Name of Department	Title of Seminar	Period From – To	No. of Participants
Computer Engineering	Seminar on "POCSO ACT 2021 & Gender Equality"	8/9/2021	65
	Seminar on "Opportunities for CSE students & Gateway for post Graduate courses onshore"	28/9/2021	50
	Webinar on "Android App Development"	26/7/2021	68
	Webinar on "Internship Program"	13/8/2021	79
	Webinar on "Cyber Awareness"	24/8/2021	100
	Webinar on "Gate Awareness "	3/5/2021	100
	Webinar on "How To Crack Gate In The First Attempt"	3/9/2021	47
	Webinar on "How to get Internship & 75% Scholarships on Microsoft Certification Tracks and get free training on "Ethical Hacking""	9/3/2021	130
	Webinar on "Python with Data	23/9/2021	60

	Science Internship"		
	Webinar on "Career Counselling and Personality Development"	23/9/2021 & 24/9/2021	81
	Webinar on "Gate Awareness Program"	10/9/2021	100

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

	International Level	National level	State Level	Local
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
Computer Engineering	Ms. Vina M. Lomte	short-term course titled "Implementation of Numerical Methods using MATLAB" conducted as a part of quality improvement program, organized by the Department of Mathematics, IIT Indore		03rd January 2022 to 08th January 2022
		FDP on "Design Thinking: Aspirations for Innovations" by AICTE Training And Learning (ATAL) Academy	AICTE	29/11/2021 to 03/12/2021
		Three Days National Online FDP on RESEARCH TOOLS FOR DATA SCIENCE, at MMIT ,Pune		29th - 31st March, 2022
	Sonal Fatangare	Faculty Development Program on Linux,E & ICT Academy, IIT Kanpur	IIT FOSS	17th May 2021 to 22nd May 2021

		FDP on "Design Thinking: Aspirations for Innovations" by AICTE Training And Learning (ATAL) Academy	AICTE	29/11/2021 to 03/12/2021
		Two Days Faculty Orientation Program on "Database Management Systems (310241) and Database Management Systems Laboratory (310246)" T.E Computer Engineering (2019 course)		10th August to 11th August, 2021.
		Three Days National Online FDP on RESEARCH TOOLS FOR DATA SCIENCE, at MMIT ,Pune		29th - 31st March, 2022
		short-term course titled "Implementation of Numerical Methods using MATLAB" conducted as a part of quality improvement program, organized by the Department of Mathematics, IIT Indore		03rd January 2022 to 08th January 2022

Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period	
Computer Engineering	Sonal Pansare	Artificial Intelligence		24/01/2022	
		Data Science and Big Data Analytic		08/02/2022	
		Cloud Computing		11/02/2022	
	Ms. Shafali Gupta	AICTE sponsored One Week Online Short Term Training Programme (STTP) On "MACHINE LEARNING (With Python)"			08th to 12th February, 2022
		ICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in Artificial Intelligence "	AICTE		29/11/2021 to 03/12/2021
		FDP on "Software Project Management"			11th Aug 2021
	Workshop on "Research: Design, Publication and IPR"			28 July to 30 July 2021.	

		One week online Faculty Development Program on "AI-ML Principles and Techniques"		14-06-2021 to 18-06-2021.
		ISTE approved STTP on Data Analytics		9th March 2022 to 10th March 2022
	Mrs. Manisha Desai	One week online National Level Faculty Development Program on "Multi Technologies"		28/6/2021 to 3/7/2021
		AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Design Thinking: Aspirations for Innovations"	AICTE	29/11/2021 to 03/12/2021
		One Day Faculty Development Program on " Artificial Intelligence"		24/1/2022
		one week online Faculty Development Program on "AI-ML Principles and Techniques",		14-06-2021 to 18-06-2021
		Faculty Orientation Program on "Data Structures Lab"		30/8/2021
		International Webinar on "Research opportunities & International Funding"		9-7-2021

Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period
Computer Engineering	Mrs.Pradnya Vilas Kasture	FDP on 5G Colloquium		27-07-2021 to 31-07-2021
		FDP on Advanced Applications in Artificial Intelligence and Machine Learning		02-08-2021 to 06-08-2021
		FDP on System programming and Operating system		05-08-2021 to 07-08-2021
		FDP on OOP and CG Laboratory		24-08-2021
		Workshop on "Computer Networks - An Insight".		23-08-2021 to 27-08-2021
		Webinar on Reinventing Indian Education Research and Innovation system		12-11-2021
		ATAL-Quantum Computing for Real World Applications,Vishwakarma	AICTE	17/01/2022 to 21/01/2022

		Institute of Technology Pune.		
		ATAL -FDP on CyberSecurity		03-01-2022 to 07-01-2022
		FDP on Cloud Computing & Laboratory Practice -II		04-02-2022
		FDP on Cloud Computing		11-02-2022
		ISTE approved one week FDP on Future technologies in cloud computing AWS,salesforce,Azure		22-02-2022 to 26-02-2022
	Mrs. Kalpana Saharan	"AI-ML Principles and Techniques",		14-06-2021 to 18-06-2021
		"Software Project Management" (TE Computer Engineering course 2019 w.e.f 2021-22) in association with Board of studies Computer Engineering, SPPU on 11th August 2021.		11/8/2021
	Mrs.Vanita Babanne	Software Project Management" (TE Computer Engineering course 2019 w.e.f 2021-22) in association with Board of studies Computer Engineering, SPPU on 11th August 2021.		11/8/2021
Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period
Computer Engineering	Mrs.Vanita Babanne	ATAL-Quantum Computing for Real World Applications from 17/01/2022 to 21/01/2022 at Vishwakarma Institute of Technology Pune.		17/1/22 to 21/1/22
		ATAL- Computer Vision: Past, Present and Future from 06/12/2021 to 10/12/2021 at SCTR's Pune Institute of Computer Technology.	AICTE	06/12/2021 to 10/12/2021
		Three Days National Level Online Faculty Development Program RESEARCH TOOLS FOR DATA SCIENCE,at MMIT ,Pune		29th - 31st March, 2022

		One day Online FDP on "Artificial Intelligence"		24th January 2022.
	Mrs.Ashwini Utture	Faculty Development Program(online) on "Current Research Trends in Computer Engineering" at Dr. D. Y. Patil Institute of Technology, Pimpri,		28th March 2022 to 1st April 2022
		FDP on RESEARCH TOOLS FOR DATA SCIENCE at MMIT ,Pune		29 - 31st March, 2022
		FDP on "AI-ML Principles and Techniques",at RMD SSOE ,Pune.		14-06-2021 to 18-06-2021.
		FDP on Cloud Computing		11-02-2022
		FDP on Data Science & Big Data Analytics		08-02-2022
		FDP on "Artificial Intelligence"		24th January 2022.
		Mrs. Madhuri S. Patil	FDP on "Inculcating Universal Human Values In Education"	
	Mr. Saurabh Vijay Parhad	FDP on "Hyper Spectral Remote Sensing and its Application"		06/09/2021 to 10/09/2021
		ATAL FDP on "Remotes sensing and GIS" 20 to 24 Sept 2021		20/09/2021 to 24/09/2021
		one week online Faculty Development Program on "AI-ML Principles and Techniques",		14-06-2021 to 18-06-2021

Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period
Computer Engineering	Mr. Saurabh Vijay Parhad	FDP on Multitechnology		28/06/2021 to 03/07/2021
		FDP on Era of Change-Recent advancements of ML in terms of AI & IOT		12/07/2021 to 25/07/2021
	Ms.Shrutika Nalwade	FDP on RESEARCH TOOLS FOR DATA SCIENCE		29/3/2022 to 31/03/2022
		Faculty Orientation Program on "Web Technology and Web Technology Lab",		25/02/2022
		FDP on Data Science & Big Data Analytics		08/02/2022
		FDP on REDHAT LINUX		15/04/2022

		FDP on "Data Structures Lab"		30/08/2021
		FDP On "Operating System laboratory",		27/08/2021
		FDP on "Object Oriented Programming & Computer Graphics Laboratory"		24/08/2021
		FDP on Multi Technology		28/06/2021 to 03/07/2021
		ATAL FDP on "Overview of Speech Processing"		13/12/2021 to 17/12/2021
	Mrs.Jyoti S. Raghatwan	ATAL-FDP on "Recent Trends and Challenges in Image Processing and Computer Vision"	AICTE	29/11/2021 to 03/12/2021
		webinar on INTERNATIONAL WEBINAR- RESEARCH OPPORTUNITIES & INTERNATIONAL FUNDING		9/072021
		FDP on "AI-ML Principles and Techniques",at RMD SSOE ,Pune.		14-06-2021 to 18-06-2021.
		Three Days National Level Online Faculty Development Program RESEARCH TOOLS FOR DATA SCIENCE,at MMIT ,Pune		29th - 31st March, 2022
	Mrs.Poi Tamrakar	FDP on "Artificial Intelligence"		24/01/2022

Name of Department	Name of Faculty	Title of Programme	Sponsored by	Period
Computer Engineering	Mrs.Poi Tamrakar	workshop on NLP with Chatbot Development		27/01/2022 & 28/01/2022
		FDP on Recent Trends in Quantum Computing		21-25 March 2022
		FACULTY ORIENTATION PROGRAM "DATA STRUCTURES & ALGORITHMS LAB"		16/02/2022
		National FDP on Research Tools for Data Science		29-31 march 2022
	Mr.Amol Jadhav	ATAL FDP on "Quantum Computing" at MET's Institute of Engineering	AICTE	from 03/01/2022 to 07/01/2022

		FOP on "Software Testing and Quality Assurance" (BE 2019 Course)		22/08/2022
		FOP on Database Management System" TE (AI & DS) 2019 Course		06/08/2022
		FOP on "Laboratory Practice-IV"		03/08/2022
		iBase company-Two Days Faculty Industrial Certification Program On MACHINE LEARNING		From 25th June 2022 To 26th June 2022
		ATAL Academy online elementary FDP on "Implementation of industry 4.0 & its challenges"	New horizon college of engineering	4- Jul to 6 -Jul 202
		ISTE approved one week STTP on "Deep learning for Computer vision"	St. John college of engineering and Management , Palghar.	8-Jul-2021
		ISTE approved one week STTP on "Deep learning for Computer vision"	St. John college of engineering and Management , Palghar.	9-Jul-2021
		FOW on TE(ENTC) revised syllabus(2019 course)	AISSMS COE Pune	10-Jul-2021

4. FDP/STP/TTT etc -Arranged

Name of Department	Name of the faculty	Title of the Programme	Period
COMP	Mrs Sonal Fatangare & Mrs Grishma Bobhate	FDP on Red Hat Linux	15-04-2021
	Mrs Sonal Fatangare & Mrs Grishma Bobhate	FDP on Self Employment in E Commerce Website Development	08-01-2021

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

Name of Author	Title of paper	Name of Publication	Impact factor	Citations
Vina Lomte	Secureye - ATM Trajectory Based Anomaly Detection System	Journal of Emerging Technologies and Innovative Research	7.17	0

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.

Name of Department	Name of the MoU	Name of the Industry / Organization	Purpose	Outcome
Computer Engg.	Oytie Pvt. Ltd.	Oytie Pvt. Ltd.	Internship to students on live industry projects	Test was conducted for final year students for providing internship



Computer Engg.: Internship , Training & Live Projects

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.

Aim: To get the recognition for the innovative and new technique or technology through patenting

Objectives:

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.

Outcomes:

1 US Patent is published and 2 patents are registered and are in process of publication.

Description of Patents:

Name of Student/ Faculty	Patent Title	Patent Registration Date	Date of Publishing the Patent & Publication	Patenting Authority	Type of Patent
Prof Sonal Fatangare and Prof. Vina Lomte	Radio-Frequency Identification Wave-Shield	31/12/2021	21/02/2022	Intellectual Property India	National
Prof Sonal Fatangare and Prof. Vina Lomte	ADHUNIK-Scar ecrow	28/04/2022		Intellectual Property India	National
Prof Amol Jadhav	A Novel Data Mining and Machine Learning- Based Framework for Cyber Security Intrusion Detection	10/05/2022	10/06/2022	Intellectual Property India	National

18. Faculty with Ph. D. Qualification

Name of Department	Total No. of Faculty	No. of Faculty with Ph. D.	No. of Faculty pursuing Ph. D.
Computer Engg.	18	Nil	3

a. Syllabus Preparation, Modification etc.

Name of Department	Various University bodies, BOS Senate
Computer Engg.	01

19. 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. Mamimum number of faculty members are getting the Performance indicator more than 50 in the academic year

Analysis of Faculty Appraisal System:

20. 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:

1. To improve employability skills of students to provide students an understanding of the expectations of industry.
2. 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	Ms. Snehal Appasaheb Kalebag	Loire Voda LLP	Skalebag5@gmail.com	2021
2	Mukul Sanjay Patil	Guru Tarak Sports	mukulpatil.2223@gmail.com	15-01-2022

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
SE	STP-1: Effective Letter and Cover Letter Writing	Mr. Saurabh Parhad	Standard Elements of a letter, Writing Mechanics, Types of Letters	25/09/2021 09/10/2021	172
SE	STP 1: Group Discussion	Mrs.Mrunaline Patole	Why GD's are conducted, Types of Group Discussion, Evaluation Components	16/10/2022 23/10/2022	125
SE	STP 2:Listening skills	Mrs. Poi Tamrakar & Mrs. Shrutika	Chinese Whispers, Noise Trap, Audio Activity,	04/03/2022, 11/03/2022	133

		Nalawade	Story Telling, Audio Activity (Travelling abroad)		
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Class	Module name	Staff name	Contents Delivered	Date	Students present
SE	STP 2:Reading skills	Mrs. Poi Tamrakar	Word Stress, Word Color Conflict, Punctuation Activity	25/03/2022 01/04/2022	65
SE	STP 2:Writing skills	Mrs. Poi Tamrakar	Sentence Making, Essay Writing, Letter Writing, Report Writing, Resume Writing	08/04/2022, 22/04/2022	146
SE	STP 2:Speaking skills	Mrs. Poi Tamrakar	Extempore, Guess the Movie Name, Group Verbal Presentation, Diagram Description	29/04/2022, 06/05/2022, 13/05/2022	140
TE	STP 4: Research Why and How	Ashwini Utture	Importance of Research, Objectives of Research, Process of Research, Criterion for Good Research	14/01/2022	79
TE	STP 4:Literature Review	Pooja Kohok	Purpose of Literature Review, Importance of Critique WRT Literature Review, Steps in Literature Review	21/01/22	87
TE	STP 4:Technical Writing	Ashwini Utture	Why Write a Report, Types of Reports, Layout of Technical Report, Sample Table of Content	04/03/22	80

Comp. 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.
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❖ 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 aggies 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)

**Address: 111/1, Warje, Pune-Mumbai Bypass
Highway, Pune-411058**

Phone: Office - +91-020-25218401/02

Principal/ Director - +91-020-25218406

Tele Fax: +91-20-25218405

Email : rmd-ssoe@sinhgad.edu