



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: **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	Mechanical Engg.	Yes	Feedback taken for all classes and average feedback of theory & practical found around 93% Students have appreciated for providing study materials and they are satisfied with the Teachers	Faculties are counselled to motivate students regarding higher studies and research activities.

b) Employers/ Industries

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Action for Improvement
01	Mechanical Engg.	Yes	i. Students need to improve in communication skills, teamwork, and focus on programming skills ii. Students also need to take sponsored projects by industry. iii. Students should work on projects which benefit society.	i. Student training programs, Guest lectures, seminar and workshop are organised. ii. Students are also encouraged for internships from Second year.

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
05	Mechanical Engg.	Yes	i. Motivation for higher studies ii. Arrange more Industry expert talks and Guest lectures. iii. Arrange more industrial visits to encourage Industry Exposure.	i. Students motivated for higher Education ii. More Industry expert talks and Guest lectures arranged iii. arranged industrial visits for students

d) Parents

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions [if Yes, write comments]
01	Mechanical Engg.	Yes	i. Arrange PTM frequently ii. Give updates about curricular on web portal.

e) Teachers

Sr. No.	Name of Branch	Feedback Taken	Analysis/ Suggestions	Overall performance of the students	Laboratory	Any Recommendation to BOS
01	Mechanical Engg.	Yes	Faculty members are comfortable about the application based approach which is implemented in the revised curriculum and examination scheme. Faculties are satisfied with the syllabus.	Students should work hard for a good score.	Satisfied	

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
02	MBA	Lean Six Sigma Green Belt Course	Mr. G. K. K. Singh, Asian Management Training Center	06-06-2022	08-06-2022 and 11-06-2022	33
		TCSION	TCS company	Feb 2022	Sept 2022	124
		Naukri Assessment Test	Naukari.com	Feb 2022	Sept 2022	145
		NISM Certification	National Institute of Security Markets	July 2022	Aug 2022	94

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	Mech. Engg.	Placement Opportunities in Design Sector after BE	Mr. Shrikant Bidwai	23/07/2021	96
		Career in CAD CAM Automation	Ms. Suvarna Dixit	11/4/2022	15
		Higher studies in Abroad	Ms. Sneha Thakar	15/03/2022	58

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]



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.

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
02	Inform. Tech.	01	04	Sunraj Infotech 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.

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.^{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	Mech. Engg.	SE	05

5. Students Internship (including online Internship for Mechanical) 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.

Sr. No.	Name of Branch	Name of Student	Name of Industry	Specialization Area	No. of days
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01	Mech. Engg.	Sagar Satish Joshi	Exide Industry Ltd,Chinchwad East,Pune-411019	Manufacturing	15
		Phalke Ranjeet Prabhakar	G.Mech Furniture Industries,	Manufacturing	15
		Harshal Sanjayrao Gawande	EXIDE INDUSTRIES LTD	Manufacturing	20
		SOHAM DEO	Skysails Engineering Pvt Ltd	Manufacturing	30
		SOHAM DEO	Nikhtish Engineering Pvt Ltd	Manufacturing	15
		Devashish G. Shinde	Manisha Engineering Works	Manufacturing	60
		Shubham Shinde	Manisha Engineering Works	Manufacturing	60
		Hrashal K. Bhalerao	Manisha Engineering Works	Manufacturing	60
		Abhijit S. Shine	Manisha Engineering Works	Manufacturing	60
		Swapnil S.Jadhav	Manisha Engineering Works	Manufacturing	60
		Nikhil S.Balkawade	Manisha Engineering Works	Manufacturing	60
		Sudharshan R.Pasalkar	Manisha Engineering Works	Manufacturing	60
		Shubham Shimpi	Manisha Engineering Works	Manufacturing	60
		Ketan D. Attaedw	Wagheshwar Engineering,	Manufacturing	30
		Saurabh D.Kumbhar	Mechnnovation Technology	Design and mManufacturing	21
		Amey Wangikar	Mechnnovation Technology	Design and mManufacturing	21
		Chandrashekar Kadam	Mechnnovation Technology	Design and mManufacturing	21
		Siihiraj Ranaware	Mechnnovation Technology	Design and mManufacturing	21
		Nikhil Chavan	Manisha Engineering Works	Manufacturing	60
		Abhijit Shinde	Manisha Engineering Works	Manufacturing	60
		Swapnil Jadhav	Manisha Engineering Works	Manufacturing	60
		Nikhil Balkawade	Manisha Engineering Works	Manufacturing	60
		Sudhanshu Pasalkar	Manisha Engineering Works	Manufacturing	60
		Nikhil Chavan	Manisha Engineering Works	Manufacturing	60
		Gawande Harshal	Exide Industries LTD	Manufacturing	60
		JADHAV SHRIDHAR DAGADOBA	M.V. P. S.'s K.B. T. College of Engineering, Nashik	Manufacturing	60
		Ingole Akshay Prakash	Ashta tech automation pvt. Ltd	Manufacturing	30
		Kalambate Rohit Ramesh	Kansai nerolac paint Ltd	Manufacturing	30
		Lohakare Gopinath Subhash	Shree Samarth Engineering	Manufacturing	90
		Sonwane surajkumar sambhaji	Force motors	Manufacturing	30
		Kalambate Rohit Ramesh	Kansai nerolac paint Ltd	Manufacturing	60
		Kandgire Abhijeet satish	Mittal Precision autocamps bosari, pune	Manufacturing	60

05	Mech. Engg	BHOLE SAURABH PRASHANT	EDGE TECH	Manufacturing	15
		Pendkar Saikiran Sanjay	Ventile Company Pvt. Ltd.	Manufacturing	60
		Yelgatte Akshay Ankush	Ventile company pvt Ltd.	Manufacturing	60
		Khade Premika Kailas	Microtech	Manufacturing	20
		Patil Mukul Shivaji	Amazon	Manufacturing	16
		Bhole Saurabh Prashant	Edge Tech	Manufacturing	20
		Prayag Akash Dhananjay	Ltr. Soft training center	Manufacturing	30
		KHADE YAASH RAJARAM	Airtech Engineering Solutions	Manufacturing	20
		BIRADAR GANESH SHIVAJI	Elite group of technology	Manufacturing	30
		Kalambate rohit ramesh	Kansai nerolac paint Ltd	Manufacturing	15
		Pendkar Saikiran Sanjay	Ventile Company Pvt. Ltd.	Manufacturing	20
		YELGATTE AKSHAY ANKUSH	Ventile company pvt. Ltd	Manufacturing	30
		Patil Mukul Shivaji	Amazon Development Center	Manufacturing	30
		Gadhawe Harikesh Anand	Tej industries pvt. Ltd.	Manufacturing	30
		Khade Premika Kailas	Microtechk	Manufacturing	30
Kale shantanu Raghunath	Ajinkyatara sahakari sakhar karahana LTD ,shahunagar- shendre, tal & dist - satara	Manufacturing	30		
Total No. of Students Internship during A. Y. 2021-22				48	

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

pursing 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
Total No. of Visit during A. Y. 2021-2022					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.

Industrial Visit Arranged for Students [A.Y. 2021-2022]



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)

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
02	E&Tc Engg.	IETE Students Forum	14	Robowar competition
03	Inform. Tech.	CSI Students chapter	30	Cloud Literacy Day

04	Mech. Engg.	SAE Collegiate Chapter	50	Participated in BAJA, Formula Bharat, E-BOOSTER Competitions
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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
05	Mech. Engg.	ATHARVA	June 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 411058
DEPARTMENT OF COMPUTER ENGINEERING

Volume-VI
2020-21

दूर्यण-2021

FROM THE CHAIR OF STES'S



Prof. M. N. Navale
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 new 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's Computer Engineering department is publishing their fifth edition newsletter "दूर्यण-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 "दूर्यण-2021". We wish them all the best in their future endeavors.



Dr. V. V. Dixit
Principal/Director

FROM THE CHAIR OF ACADEMIC DEAN



Dr. Sharnid S. Malik
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...



Information Technology

Sinhgad Institutes

Sinhgad Technical Education Society's
RMD SINHGSD SCHOOL OF ENGINEERING, PUNE

दिशा

We make IT work for you

Volume V, 2021-22

Inside the Issue

- Department at a glance
- Farewell
- Highlight of the Department
- Student Activity
- Co-curricular Activities
- Student Corner




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FILE HOME INSERT DESIGN PAGE LAYOUT REFERENCES MAILINGS REVIEW VIEW

Sinhgad Institutes

Sinhgad Technical Education Society's
RMD Sinhgad School of Management Studies, Warje, Pune-50

INSIGHT - A. Y. 2021-2022

Thought of the week

"By Failing To Prepare, You Are Preparing To Fail."
- Benjamin Franklin

Dean's Message



A very warm welcome to RMD Sinhgad School of Management Studies, an institute dedicated to the proper growth and development of each student for a better career progression. Our mission is to provide high quality education and engage our students to engage in both academic and extracurricular activities. We aim at developing dynamic young competent professionals and make them ready to face global challenges.

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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.

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 is 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?

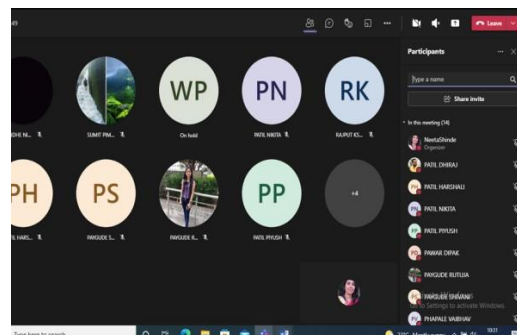
Any suggestions of students ongoing programmes? Any other issue related to upbringing of the students?

Any suggestions of students on going programmes?

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



MBA TG MEETING



8. 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	Mech. Engg.	SE	51.85	25.92	90.90	9.09	95.56	-	21.96	76.1	44.98	88.72
		TE	68.11	30.43	92.95	7.04	91.24	8.76	45.94	90.94	48.76	87.18
		BE	93.45	-	99.19	-	61.85	-	93.25	-	83.81	-

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.E.(All Branches) Regular Students.						
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
T.E.(All Branches) Regular Students.						
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.

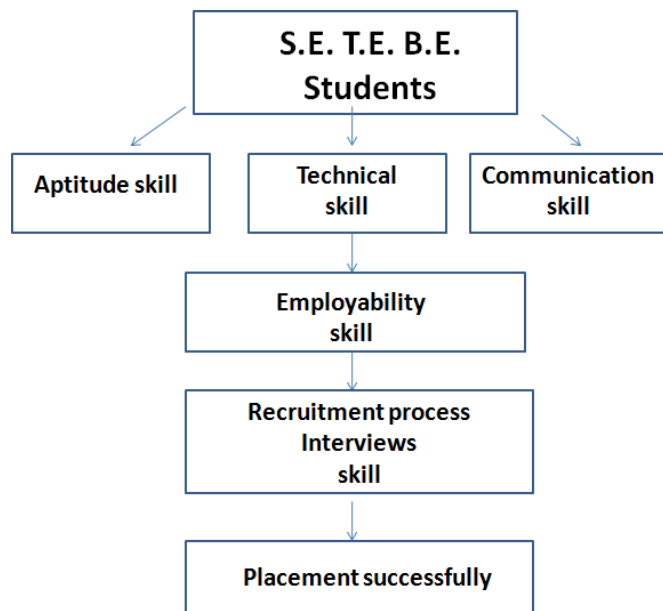
Training and placement office with ample space, furniture, computers, video conferencing for online interviews for students is provided.

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.			Computer Engg.		
		2021-2022	2020-2021	2019-2020-	2021-2022	2020-2021	2019-2020-
01	Total No. of students placed including off campus	22	06	04	103	92	92
02	No. of students going for higher studies	10	04	03	0	2	06
03	No. of students self employed	01	05	06	0	0	0
04	Total (I + ii + iii)	25	26	15	103	94	98
05	Total students in final year	173	186	132	162	139	142
06	$\% \text{ placement} = \frac{i + ii + iii}{v}$	14.5	14	11	63.58	67.62	69.01

Sr. No.	Name of Contents	Name of Department / Academic Year					
		E&Tc Engg.			Information Tech.		
		2021-2022	2020-2021	2019-2020-	2021-2022	2020-2021	2019-2020-
01	Total No. of students placed including off campus	12	17	27	44	61	30
02	No. of students going for higher studies	1	2	1	04	02	0
03	No. of students self employed	0	0	1	0	0	0
04	Total (I + ii + iii)	13	19	29	48	63	30
05	Total students in final year	35	54	66	88	82	73
06	$\% \text{ placement} = \frac{i + ii + iii}{v}$	37.14	35.18	43.93	54.54	76.82	41.09

Sr. No.	Name of Contents	Name of Department / Academic Year					
		Mechanical Engg.			MBA		
		2021-2022	2020-2021	2019-2020-	2021-2022	2020-2021	2019-2020-
01	Total No. of students placed including off campus	34	58	13	95	45	70
02	No. of students going for higher studies	05	05	06	1	0	0
03	No. of students self employed		02		3	4	8
04	Total (I + ii + iii)	39	65	19	99	49	78
05	Total students in final year	223	279	339	130	132	150
06	$\% \text{ placement} = \frac{i + ii + iii}{v}$	17.49	23.29	5.6	76.15	37.12	52



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.

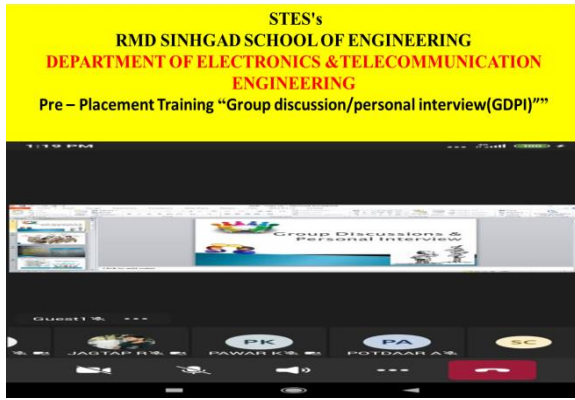
Sr. NO.	EVENT/ ACTIVITY	Date/ Period	Dept	Academic Year
01	One week online pre-placement training	17/08/2021 to 25/08 2021	COMP	2021-22
02	Seminar on How to Ace an Interview	3/07/ 2021	COMP	2021-22
03	2 days online pre- placement training session(Group discussion and aptitude test)	25/06/2021 & 29/06/ 2021	COMP	2021-22
04	2 Days Pre- Placement Training	26/08/21 - 27/08/21	E&TC	2021-22
05	"Developing Soft Skills and Personality"	14/12/2022	E&TC	2021-22
06	Webinar on "Career opportunity in Software Testing"	29/01/2022	E&TC	2021-22
07	Webinar on "Discussion on internship program to grab current and Future job opportunities in IT industry"	10/03/2022	E&TC	2021-22
08	Seminar on "Profile Building and Career Opportunities"	11/03/2022	E&TC	2021-22
09	Seminar on "Significance of Global Certification for Campus Placement"	8/04/2022	E&TC	2021-22
10	"Team building, leadership and fitness"	12/05/2022	E&TC	2021-22
11	Online Pre-placement Training session(GD and Aptitude test)		IT	2021-22
12	Importance of Live Projects	24/08/2021	IT	2021-22
13	Internships with Scholarships for Microsoft & Google with Free Ethical Hacking Certification	20/09/2021	IT	2021-22
14	Full Stack Development	24/09/2021	IT	2021-22
15	Hands On NLP with Chatbot Development	27/01/2022 & 28/01/2022	IT	2021-22
16	Profile building and Career Opportunities	11/4/2022	IT	2021-22
17	Internship Program Association with Microsoft corporation.	8/4/2022	IT	2021-22
18	Placement Seminar for Third Year Student	23/3/2022	IT	2021-22
19	Future scope after engineering	16/3/2022	IT	2021-22
20	Career guidance and quiz compitions	10/3/2022	IT	
21	Profile building and Career Opportunities	11/4/2022	IT	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
02	E&TC	Placement Awareness Seminar on 23rd March 2022	Dr. J.L Minase	RMDSSOE	Seminar
03	Mechanical Engg.	Seminar by TPO	April 2022	2021-22	Seminar
		Training by Rubicom -Apptitude Reasoning, GD-PI	11/07/2022 to 19/07/2022	20212-22	Training
		Seminar on Career Opportunities n SAP by			Seminar
		STP I Conducted by all faculties	25/09/2021, 08/10/2021, 09/10/2021, 16/10/2021, 23/10/21	2021-22	Traning
		Counselling to Coginzant Shortlisted Students for next rounds			Seminar
04	MBA	Webinar on Digital Marketing	Mr. Rohit Deo	27-07-2021	Webinar
		Webinar on Orientation Session of Lean Six Sigma Green Belt Course Certification	Mr. G. K. K. Singh	09-07-2021	Webinar
		Webinar on Personality Development	Mr. Santosh Dhage	17-08-2021	Webinar
		Webinar on Soft skills and Object Oriented	Mr. Tariq Khan	01-08-2021	Webinar
		Webinar on Internship Opportunities at S P Academy	Mr. Sachin Bhamgude	12-08-2021	Webinar
		Webinar on Stress and depression Management	Mr. Swapnil Malewar	02-07-2021	Webinar
		Webinar on Business Ethics	Dr. Manisha Paliwal	25-11-2021	Webinar
		Webinar on Importance of Aptitude test in Career Path	Mr. Vinit Kankriya	19-01-2022	Webinar
		Evening webinar on Career Planning & Goal Setting in association with ISTD	Mr. Ravi Baviskar Mr. Nitin Gavhane	30-03-2022	Webinar
		Webinar on Career opportunities in abroad	Team- Study Mart Overseas Education	03-02-2022	Webinar

		Webinar on Creative Thinking	Dr. Mangesh Waghmare	25-01-2022	Webinar
		Entrepreneurship Meet on Startup and New Venture	Mr. Rajaram Shinde	06-08-2022	Webinar
		Webinar on "Entrepreneurship: My journey towards it	Mr. Saurabh V Pardhi	2021-22	Webinar

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



Department of E&TC



Department of Mech Engg



MBA

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
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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
02	Mech Engg.	STES Rocketry Team (Atharva Pingale from RMDSSOE)	A group of 20 students from Pune has been selected to participate in the Latin American Space Challenge 2022 (LASC) which is the International Rocketry Competition organized in Brazil. The team from Pune's Sinhgad Technical Education Society is the only team from India and Asia-Pacific to participate in the competition. The students will showcase rocketry skills with their rocket 'Midnight Sun' in the solid propulsion category of 1 KM height target at the competition.	Rocket challenge 3rd Place Worldwide in target category 1st in Asia-Pacific Satellite Challenge: 3rd place worldwide in target category 1st nationwide
	Mech Engg.	Mr. Swaraj Badaskar	Wushu Championship 2021-22	Secured 2nd Position in Taolu Double Weapon Event
		Mr. Swaraj Badaskar	Wushu Championship 2021-22	Secured 2nd Position in Taolu Wingchun Event
		Vishal C.Chaudhari	Lotus IT Hub	Successfully Completed the C.CPP with Grade A+

		Aayush Sachin Gupta	Orbit	Successfully Completed the AUTOCAD 2018 with Grade A+
03	MBA	Ishant Khandekar Saurabh Rathod Tapeshe Gawande Dipak Aher	"Cradzy" Inter collegiate Management Event	
	MBA	MBA I & MBA II	Traditional Day	



FIRODIYA KARANDAK 2022



"MBA Crazy" Inter collegiate Management Event



Blood Donation Camp on 15/03/2022 at Bhukum Under NSS

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	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	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
Mechanical Engg.	Recent trends in CAD CAM industry		37
	Career opportunities in design & Simulation		33

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 Science Internship"	23/9/2021	60
	Webinar on "Career Counselling and Personality Development"	23/9/2021 & 24/9/2021	81
	Webinar on "Gate Awareness Program"	10/9/2021	100
Information Technology	Hands on NLP chatboat Development	27-01-2022 & 28-01-2022	89
	AWS Cloud	25-06-2021 & 26-06-2021	59
	website site development	25-05-19	70
	database connectivity through open source software workshop	21-09-2019	38
	research trends technique and opportunities in machine learning using python	20-09-2019 & 21-09-2019	60
	Git and github workshop	8-7-2019	51
	Machine learning using deep learning	12-02-2020 & 14-02-2020	60
	Chatbot development	06-02-2020	46
	Python on data science	9-1-20 & 10-1-2020	94
	AI and MACHine learning	26-03-2019	60
	Webpage desiging by using java ,html,css	28-1-19 & 29-1-2019	80

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
Mech. Engg.	Ms. A. A. Kankal	FDP on "Recent Developments in Manufacturing Technology"	SIET, Hyderabad	21/06/2021 to 26/06/2021
	Mr. S. U. Belgumwar	Syllabus Implementation Workshop on Mechatronics	MMIT, Pune	27/07/2021
		one day FDP on "Automation System Design & Simulation using Automation Studio Software	DELLSOFT Technologies, Delhi	24/09/2021
		FDP on "Recent Developments in Manufacturing Technology"	SIET, Hyderabad	21/06/2021 to 26/06/2021
	Mr. M. L. Thorat	Syllabus Implementation Workshop on Manufacturing Proesses	AISSMS COE,Pune	23/02/2021
	Mr. R. J. Gawande	FDP on Awareness towards R&D Credential Development	VIIT, Pune	18/07/2022 to 22/07/2022
	Mr. Runwal N. J.	AICTE One Week Programme on Small Wind Turbines : Design, Development and Testing	K J Trinity COER, Pune	31/03/2021 to 06/04/2021
	Mr. Ashish M Ekatpure	"Advancements in Mechatronics Technologies"	RMDSSOE, Pune	15/03/2021 to 19/03/2021
		AICTE- ISTE Approved Advanced Mechatronics System	Sandip Polytechnic, Nashik	02/03/21 to 8/032021
		AICTE-ISTE Approved FDP on "Recent Developments in Manufacturing Processes"	SKNCOE Pune	22/02/2021 to 05/03/2021
		Sponsored by DBATU, Lonere TEQIP-III. "Role of National Education Policy for National Development"	Karmayogi Engineering College, Shelve Pandharpur	30/03/2021

	Ms. Ashwini N Arun	AL-ML Principles and Techniques	RMDSSOE	14/06/2021 to 18/06/2021
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4. FDP/STP/TTT etc -Arranged

Name of Department	Name of the faculty	Title of the Programme	Period
MECH	Mr. Ashish M Ekatpure	FDP on Advancements in Mechatronics Technology	15/03/2021 to 19/03/2021

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

Name of Author	Title of paper	Name of Publication	Impact factor	Citations
Dr. Sachin C. Kulkarni	Effect of In Fill Patterns on 3D Printed Multi-Wall Carbon Nanotube Based Acrylonitrile Butadiene Styrene Nanocomposite on Mechanical Properties	SAMPE neXus		
Mr. P. H. Jadhav	Numerical consideration of LTNE and darcy extended forchheimer models for the analysis of forced convection in a horizontal pipe in the presence of metal foam	ASME - Journal of Heat Transfer (American Society of Mechanical Engineers Digital Collection)	3.251	
Mr. P. H. Jadhav	Forced Convection Analysis in a Horizontal Pipe in the Presence of Aluminium Metal Foam—A Numerical Study	Springer Singapore - Fluid Mechanics and Fluid Power	2.618	
Mr. P. H. Jadhav	Natural Convection Through High Porosity Metal Foams—A Numerical Study	Springer Singapore - Fluid Mechanics and Fluid Power	2.618	
Mr. P. H. Jadhav	Conjugate heat transfer study comprising the effect of thermal conductivity and irreversibility in a pipe filled with metallic foams	Springer Singapore - Fluid Mechanics and Fluid Power	2.618	3

Mr. P. H. Jadhav	Optimum design of heat exchanging device for efficient heat absorption using high porosity metal foams	Elsevier-International Communications in Heat and Mass Transfer	5.683	3
Mr. P. H. Jadhav	Performance evaluation of partially filled high porosity metal foam configurations in a pipe	Elsevier-Applied Thermal Engineering	6.465	

Aim	Objectives	Outcome
To publish research papers on the basis of research carried out for self advancement in reputed journals	<ol style="list-style-type: none"> To encourage faculty to do research work by referring reputed journals. 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:

- To increase Industry Institute interaction to bridge the gap between industry and Academia.
- 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
Mechanical Engg.	India first Robotics Innovation & Reaserch LLP	India first Robotics Innovation & Reaserch LLP	1. To establish Center of Excellence Robotics and Automation at RMDSSOE, Warje ,Pune	
	CAD/CAM	CADCAMBRIDGE	Seminar on "Recent Trends In CAD/CAM Industries"	Seminars arranged and students got excellent knowlwdgwe about various software currently used in industries

	Prudent Technology Solutions India Pvt.Ltd	Prudent Technology Solutions India Pvt.Ltd.Pune	Seminar on SAP	Students got knowlwdge about SAP Domain and its its various modules such as SAP SD, SAP MM, SAP HANA etc.
	EXCEL RAISING EXCELLENC	EXCEL RAISING EXCELLENCE,BTM Layout , Bangaluru.	1.Software Technology Training.2.Skill Development Programs.3. Faculty Development Programs	
	ENVISION COMPUTER	ENVISION COMPUTER TRAINING INSTITUTE , Yasho -Parva, Plot No.3 Sant Eknath Nagar Part 1,Bibvewadi,Pune-37	1.To Encourage the students to register themselves for industry ready Training conducted by Company.2 . Enhance the chances of the students getting industry ready by different practical courses offer by the company	
	EXCELR Raising Excellence	EXCELR Raising Excellence	Guest Sessions,Provided training & delopment opportunities for students.	

Name of Department	Aim	Objectives	Outcome
Mechanical Engg.	To enhance student's Industry.	It gives training opportunities in career and placements.	Students will get internship through MOU's. Students get placements through MOU's.

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 Department Patents:

Sr. No.	Department	Name of Student / Faculty	Patent Title	Patent Registration Date	Date of Publishing the Patent & Publication	Patenting Authority	Type of Patent
03	MECH	Dr. S. C. Kulkarni	Development of nanoengineered ABS-MWCNTS Composite using fused deposition modelling (FDM) 3D printing infill patterns	18/07/2022	5/8/2022	Intellectual Property India	India

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.
Mechanical Engg.	24	1	8

19. Faculty Associated with University Work

a. Syllabus Preparation, Modification etc.

Name of Department	Various University bodies, BOS Senate etc.
Mechanical Engg.	01
Total	01

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

Analysis of Faculty Appraisal System:

21. 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
Mechanical Engineering					
SE	STP I	Mr.R. J. Hire	All Modules	25/09/2021 to 23/10/2021	

Department	Aim	Objectives	Outcome
Mech. Engg.	To provide extra curricular activity and skill oriented technical training for improvement in students.	To bridge the skill gaps and make students industry ready. To provide an opportunity to students to develop inter-disciplinary skills.	The students will be able to understand the latest technologies and innovations in the Industry.

❖ 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

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