

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.**Accreditation Grade : **A**Date of Report: **20**th **March 2020**Date of Accreditation: **27**th **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	FE	Yes	Feedback taken and for all the theory and practical subjects .	Faculty members having feedback less than 60% are being counselled. Discussed and suggested remedial efforts for the improved delivery of the lecture to reach the satisfactory level of the students.

b) Employers/ Industries

Alumni play animportant 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

d) Parents

Sr.	Name of	Feedback	Analysis/ Suggestions [if Yes, write comments]		
No.	Branch	Taken			
01	FE	Yes	 i. Parents are happy and satisfied about the rigorous academic activities run by the department during Online as well offline teachings. ii. All the parents have highly appreciated our most efficient TG scheme and continuous follow up for attendance and monitoring during this year 		

e) Teachers

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

The college aims to offer the best possible environment and learning experience to encourage students to perform to their full impending for academic attainment. By analyzing the feedback received from students, alumni, parents and stakeholders it is observed that thegap 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:

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 givepractical 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		Work-life balance	Dr. Dileep Patwardhan	04/01/22	310
01 F.E.	F.E.	Carrier options	Mr.Raghvan Koli	27/04/22	252

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 internshipsand 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.

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
05	FE	FE	60

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

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

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

Aim & Objectives of Students Internship:

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

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

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.

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)
- q. Indian Science Congress Association (ISCA)

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

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

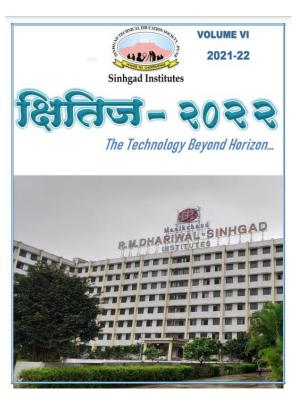
Department-wise Newsletters with their Name of title published in A.Y. 2019-2020 are given below.

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.









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 an high quality education and inspire our students to engage in both academic and enriching curricular and extra-curricular activities. We aim at developing dynamic young competent professionals and make them ready to face global challenges.

TATES

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 guestion 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 workshopsseminars- 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]:



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

% Result =

= No.ofstudentspassedwithoutbacklog/ATKT

No. of students appear d for exam

= No.ofstudentspassedwithoutbacklog/ATKT No.ofstudentsappeardforexam

 $\& \frac{\textit{No,of students passed with ATKT}}{}$ No. of students appear d for exam

a. University Result Analysis

Sr.					A.Y. 2020-2021 A.Y. 20		19-2020 A.Y. 2018-2019		A.Y. 2017-2018			
No.	Branch	Class	Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT	Without ATKT	With ATKT
06	FE	FE	39.09	99.67	96.84	100%	35.71	78.12	19.78	74.72	28.19	71.81

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

Name of Department	RMDSSOE Result
FE (All)	
Total studentsappeared	307
No of All ClearStudents	120
% age all clearresult	39.09%
Distinction	74
First class	42
Higher second class	2
Second class	0
Pass class	2
No. of fail students	1

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.

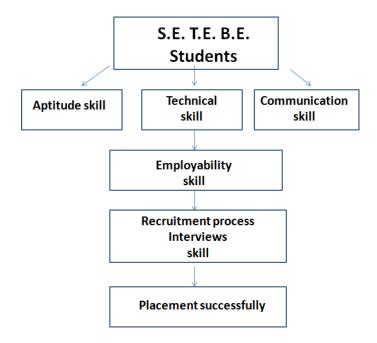
Training and placement office with ample space, furniture, computers, video conferencing for online interviews for students is provided.

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:

- CADCAM Guru Solutions Pvt. Ltd. Technical Training in CAD software for Mechanical students
- 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.

- Activity conducted by T&P Dept.
- 2. Activity conducted by respective department [A.Y. 2021-2022]

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.

- 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.	Name of Activity	No. of Students Participated					
No.	Name of Activity	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.

11. Weak and Bright Students Identification and Efforts.

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

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.

Counselling on Time management during exam and points to cover while writing answers to score good marks. Subject topics are brushed up with all respects such as competitive examination examples and GATE examples for students 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	Per	Period		No. of	
	Tiue	From	То	Participa	ants	
Play, Sm	se studies, Role nall Group s, 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

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
First Year Engg.		FDP on Mathematical Softwares		19/02/2021 & 21/02/2021
	Gaikwad	FDP on " Accelerating innovation in Material Science - Surface Characterization FDP on 'How to be dynamic and effective		18/05/2021 & 22/05/2021 12 /05 /2021
	Mrs.Madhura S. Patel	teacher' AICTE-IST approved orientation / refresher programme on "small wind turbines:Design development and testing"		28/04/2021 & 04/05/2021

4. FDP/STP/TTT etc -Arranged

Name of Department	Name of the faculty	Title of the Programme	Period
FE	NIL	NIL	NIL

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

Name of Department	Name of the faculty	Title of the Programme	Period
FE	NIL	NIL	NIL

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
Mrs. deepali Newaskar	Batteries for Active Implantable Medical Devices in 2021 International Conferences on Intelligent Technologies (CONIT)	IEEE Banglore		
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	
Dr. Devyani Ingale	Issues in International Business Ethics with Special Reference to Indian MNC's	Innovation in Economy & Policy Research		
Dr. Devyani Ingale	A critical analysis of corporate Social Responsibilities in Underdeveloped countries.	Journal of Business Analytics and Data Visualization		
Dr. Devyani Ingale	Strategic Analysis of Regional Rural Banks in India	Vidhyabharati International Interdisciplinary research journal		
Dr. Devyani Ingale	Critical Analysis of Poverty Eradication Initiatives of Indian Administrative System since Independence.	Vidhyabharati International Interdisciplinary research journal		
Dr. Devyani Ingale	A study of Corporate Governance, Business Ethics and corporate social responsibility with special reerence to Indian Banking System	Vidhyabharati International Interdisciplinary research journal		

Dr. Devyani Ingale	Emergence of Big Tech and the future of Banking Industry	Vidhyabharati International Interdisciplinary research journal
Archana Chirmade	A study of impact of social media on groups engaged in social activities across pune city wrt BRUCE Tuckman's group development theory	The journal of Oriental Research Madras

Aim	Objectives	Outcome
To publish research papers on the basis of research carried out for self advancement in reputed journals	 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:

- 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.

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 keepcompetitors 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 wise Patents:

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.
FE	12	1	2

19. Faculty Associated with University Work

a. Various University bodies, BOS Senate etc.

Name of Department	Various University bodies, BOS Senate etc.
FE	00
Total	00

b. Syllabus Preparation, Modification etc.

Name of Department	Various University bodies, BOS Senate etc.
FE.	00
Total	00

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@g mail.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

Strength

Affiliation to Savitribai Phule Pune University.

- Good academic performance.
- Experienced and qualified faculty and their retention.
- Transparent, conducive and collaborative work environment. Innovative teachinglearning 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)

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

Principal/ Director - +91-020-25218406

Tele Fax: +91-20-25218405

Email: rmd-ssoe@sinhgad.edu

Strength

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