

Annual Quality Assurance Report for Academic Year 2017–2018

Submitted by



STES's

**Rasiklal M. Dhariwal Sinhgad Technical Institute Campus, Warje
Pune – 411 058**

(Approved By AICTE, Recognized By Government of Maharashtra, Affiliated to Savitribai Phule Pune University)
(NAAC "A" Grade)

Submitted to



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL An

Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India



Sinhgad Technical Education Society's
RMD SINHGAD TECHNICAL INSTITUTES CAMPUS
RMD SINHGAD SCHOOL OF ENGINEERING



Approved by AICTE, Recognized by Government of Maharashtra, Affiliated to S. P. Pune University

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Date: 03/09/2018

CERTIFICATE

This certified that the Annual Quality Assurance Report (AQAR) for Academic year 2017-18 forwarded to the National Assessment and Accreditation Council (NAAC), Bengaluru is compiled from the data collected official records it is true the best of our knowledge and belief.

Mrs. Snehal A. Bhosale
Coordinator, IQAC

Dr. V. V. Dixit
Chairperson, IQAC

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The Annual Quality Assurance Report (AQAR) of the IQAC for Academic Year 2017-18

Part – A

1. Details of the Institution

1.1 Name of the Institution Technical	STES' Rasiklal M. Dhariwal Sinhgad Institute Campus, Warje, Pune – 411 058
1.2 Address Line 1	111/1, Katraj-Dehu Road Bypass Highway
Address Line 2	Warje
City/Town	Pune-58
State	Maharashtra
Pin Code	411058
Institution e-mail address	principal.rmdssoe@sinhgad.edu
Contact Nos.	020 - 25218402
Name of the Head of the Institution:	Prof. (Dr.) V. V. Dixit
Tel. No. with STD Code:	020-25218401/2
Mobile:	9822777265
Name of the IQAC Co-ordinator:	Mrs. Snehal A. Bhosale
Mobile:	+91 9890476048
IQAC e-mail address:	entchod.rmdssoe@sinhgad.edu
1.3 NAAC Track ID	MHCOGN 27418
1.4 NAAC Executive Committee No. & Date:	EC(SC)/29/A&A/53.1 dated 27-11-2017
1.5 Website address:	www.sinhgad.edu
Web-link of the AQAR:	http://cms.sinhgad.edu/rmd_sssoe/MHCOGN27418_RMDSTIC_PUNE_MAHARASHTRA.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.03	2017	5 Years

1.7 Date of Establishment of IQAC : 06/03/2017

1.8 AQAR for the year 2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

- i. Not Applicable – This is the First AQAR being submitted to NAAC after latest Assessment
- ii. NAAC PEER TEAM VISIT : 8th November-9th November 2017

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University

Savitribai Phule Pune University

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (Specify)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1	No. of Teachers	10
2.2	No. of Administrative/Technical staff	02
2.3	No. of students	02
2.4	No. of Management representatives	02
2.5	No. of Alumni	01
2.6	No. of any other stakeholder and community representatives	01
2.7	No. of Employers/ Industrialists	01
2.8	No. of other External Experts	00
2.9	Total No. of members	19

2.10 No. of IQAC meetings held 02

2.11 No. of meetings with various stakeholders: No. Faculty
 Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year Yes No
 If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

1. Implementation of Academic Monitoring Committee (AMC)
2. Appointment of Dean Academics
3. Implementation of online Faculty Appraisal
4. Formation of the committees for –
 - a) Students Activities
 - b) Internship
 - c) Placement Improvement

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year

Plan of Action	Achievements
<ol style="list-style-type: none">1. Implementation of Academic Monitoring Committee (AMC)2. Appointment of Dean Academics3. Implementation of online Faculty Appraisal4. Formation of the committees for –<ol style="list-style-type: none">a) Students Activitiesb) Internshipc) Placement Improvement	<ol style="list-style-type: none">1. AMC is established2. Dean Academics appointed3. Online faculty appraisal is implemented4. All three committees are formed

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	0	0	0	0
PG	4	0	0	0
UG	5	0	0	5
PG Diploma	0	0	0	0
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

Pattern	Number of programmes
Semester	√

1.3 Feedback from stakeholders* Alumni Parents Employers Students

Mode of feedback : Online Manual Co-operating schools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- The Final year engineering curriculums (Semester 7 and 8) of programmes Mechanical, Computer, Electronics and Telecommunication, IT, Civil have been revised and updated.
- Credit System pattern is introduced for Final Year examination result.
- Soft Skill and Employability skill subjects are introduced in curriculum
- Audit Courses are introduced.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Entrepreneurship Development Cell: This cell is developed to promote entrepreneurship among the students. Various lectures and visits are arranged to achieve the same

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Sr. No	Department	Total	Asst. Professors	Associate Professors	Professors
1	Civil	30	29	01	00
2	Computer	28	28	00	00
3	E & TC	14	14	00	01
4	IT	10	10	00	00
5	Mechanical	35	33	01	01
6	First year	10	07	02	01
7	MBA	16	15	00	01
	Total	144	136	04	04

2.2 No. of permanent faculty with Ph.D. 07

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
136	-	04	28	04	12	-	-	144	40

2.4 No. of Guest and Visiting faculty and Temporary faculty: 23

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	12	8	11
Presented	4	3	0
Resource Persons	0	0	

2.6 Innovative processes adopted by the institution in Teaching and Learning:

1. Pre-Semester planning of academic calendar which includes all internal examination timetable, various academic activities and tentative timetable of university examination
2. Faculty and students taken up NPTEL courses.
3. Experiential learning opportunities through Value Addition Programs (VAP)
4. Exposure to Industry through industry visits.
5. Internship opportunities for hands-on experience in Summer Break
6. Working on exiting MoUs to get industry sponsorship for maximum project groups
7. Organization Project Competition
8. Skill Development through Audit courses and Students Training Program (STP)

2.7 Total No. of actual teaching days during this academic year 180

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- E-Exam Portal for online exam practice
- Continuous Evaluation Process with mock On-line and Unit Tests before In-Sem Examinations are conducted and evaluation is done.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop- 27

2.10 Average percentage of attendance of students

76.7%

2.11 Course/Programme wise distribution of pass percentage:

Department	Title of the Programme	Total no. of students appeared	Division				
			Distinction %	I %	Higher II %	II %	Pass %
Civil	BE	141	62.41	21.27	3.55	0	86.52
Computer	BE	126	58.33	14.10	4.49	0.64	99.21
E&TC	BE	67	58.20	23.89	5.9	1.5	89.55
IT	BE	53	41.17	37.25	9.8	1.96	96.92
Mechanical	BE	278	61.80	29.18	9.61	-	83.81
MBA	MBA	117	23.07	58.11	00	00	81.19

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes

:

1. Academic calendar is prepared well in advance for all classes including UG and PG courses.
2. Course file is prepared before start of semester and checked by HoD
3. Notes and question bank is shared with students.
4. Internal Test schedule is shared with students.
5. Remedial classes are conducted for students failing in internal tests and university exam.
6. A strict follow up of execution of academics is taken by IQAC committee.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmers	Number of faculty benefitted
Orientation programmers	39
Staff training conducted by other institutions	26
Staff training conducted by other university	02
Summer / Winter schools, Workshops, etc.	19
Any Other / Industrial Training etc.	08
Faculty Improvement Program	02
Refresher courses	61
Others	39

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Research promotion process at RMDSTIC aims at inculcating research culture among all faculty members and students through various activities such as workshop on Research Methodologies, Scientific Writing for faculty and Research Club for students. The research projects receive support from DST, SPPU, STES and other agencies.
- Research is a significant activity of the institution, the main role of the IQAC is to motivate the faculty members for research contribution. As a result 25 faculty members have enrolled for PhD.
- IQAC explained the importance of need based interdisciplinary projects.
- IQAC motivated the faculty members to register for copyright and patents.
- The importance of consultancy is explained to the faculty members.
- Research collaboration is important for the improvement of the research; IQAC motivated the faculty members to start MOU, for research collaboration.
- The research should be useful for the society so the major stand of IQAC is to give motivation to start consultancy in various streams.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	-	02	-
Outlay in Rs. Lakhs	3.5	-	2.1	-

3.3 Details regarding minor projects:

	Completed	Ongoing	Sanctioned	Submitted
Number	2	-	2	-
Outlay in Rs. Lakhs	1 Lakh	-	1 Lakh	-

3.4 Details on research publications:

Sr.No	College	Type of publications	International	National	Others
1	RMD SSOE	Peer Review Journals	70	-	-
		Non-Peer Review Journals	52	-	-
		e-Journals	55	-	-
		Conference proceedings	12	03	-

3.5 Details on Impact factor of publications:

Range	3-7	Average	6.87	h-index	00	Nos. in SCOPUS	09
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3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2017-18 [Mech] SUPRA-2018	SHEETAL ENGG WORKS [INDUSTRY] for	1,50,000	1,50,000
	2017-18 [Mech] ECO-CART2018	STES	2,00,000	2,00,000
Minor Projects	2017-18 [Mech] E- VASUNDHARA	STES	70,000	70,000
	2017-18 [Mech] SAE- AERODESIG 2018	STES	30,000	30,000
Interdisciplinary Projects	NIL	NIL	NIL	NIL

Industry sponsored	2017-18 [ETC] Industry sponsored Projects	e-Maestro	30,000/-	30,000/-
	2017-18 [ETC] Industry sponsored Projects	OPULENT	25,000/-	25,000/-
Projects sponsored by the University/ College	NIL	NIL	NIL	NIL
Students research projects (<i>other than compulsory by the University</i>)	NIL	NIL	NIL	NIL
Any other(Specify)	NIL	NIL	NIL	NIL
Total	06	06	5,10,000/-	5,10,000/-

Ongoing Research work by Faculty members:

SR.No	Dept	Faculty	Title of the project	Status
1	E&TC	Mrs. Snehal.A. Bhosale	"To secure Data Communication in IoT"	On going
2		Ms. Saylee Begampure	Deep learning based framework for Video Analytics	On going
3		Mr. Anant R. More	Resoures Allocation optimization in CNR	On going
4		Mr. Rajesh Shekokar	Suspicious Human Activity Recognition Model For Smart Surveillance	On going
5	FE	Mrs. Chhaya Lnde	Analytical Modeling of Transient Subsurface Groundwater Interaction Over Sloping Terrain In Presence of Thin Vertical Stream Bank	
6	COMP	Ms. Vina M Lomte	Devnagari Text Recognition	On going

7		Mrs. Nikhita N. Nerkar	Convex Big Data Optimization Technique in Distributed Environment	On going
8		Mrs. Manisha Changule	Advance technique for IoT security	On going
9		Mrs. Mohini Arote	Classification By Using Unsupervised Algorithm	On going
10		Mr. Parth Sagar	Test Case Prioritization Using RL Based Learning	On going
11	MECH	Mr. N. D. Pagar	Dynamic response analysis of expansion bellows in STHE	On going
12		Mr. S. S. Mulik	Design and development of XY flexural mechanism for high precision application	On going
13		Mr. M. L. Thorat	Investigation of Defects in Hot Forging Process	On going
14		Mr. A. D. Patange	Machine fault diagnosis using machine learning techniques	On going
15		Mr. H. H. Kadam	Enhancement in Flow Boiling by using Nanofluids and Surfactant	On going
16		Mr. S. V. Dubal	Manufacturing, Synthesis & Characterization of Multifunctional Nanocomposite for Electric Vehicle	On going
17		CIVIL	Ms. S. U. Bobade	A Fuzzy approach for accidental black spotseverity indexing and levelling of expressways and national highways in a region.
18	Mr. C. P. Mane		Feasibility study of the road by the side of river bed	On going
19	Mr. A. V. Datye		Process Optimisation of modified	On

			stabilisation tank for treatment of domestic sewage	going
20		Ms. S.B. Deshmukh	Simulation of Canal Flow	On going
21		Mr. Rohit Shintre	Feasibility Study of Energy Recovery from Solid Water	On going
22		Ms. S B Kshirsagar	Smart Utilization of Land	On going
23		Mr. M.A. Khandare	Use of Pyroash in Road Pave ment	On going
24		Mr. S. G. Suryawanshi	Feasibility & Analysis is Self Compating Conevere	On going
25		Mr. D. B. Bhosale	TQM Study of Six Signals Cost of Quality	On going
26		Mr A V Shirgire	Addition of Waste Construction Material in Paver Block	On going
27	MBA	Mrs.Archana Chirmade	To Study the impact of 5S methodology implementation in Automobile Industries in Pune City.	On going
28		Ms. Priyanka J. Bachhav	Impact of English Communication Skills on The Performance of Management Students: A Case Study	On going
29		Mr. Prashant T. Patil	Role of Venture Capital Firms In Development Of Entrepreneurship And Msme's In Maharashtra State For The Period 2005 - 2015	On going
30		Mr. Pravin G. Bodhade	Empirical Study of Customer Experience Management In Life Insurance Industry With Reference to Pune City	On going
31		Mr. Amar P. Narkhede	To Study The Impact Of Shopping Mall On Consumer Behavior With Special Reference To	On going

			Undergraduate Students While Shopping At Shopping Mall In Pune City	
32		Mrs. Anima R. Rathod	A Study on First Generation Entrepreneurs and Their Venture Sustainability In IT & Ites Sectors With Special Reference To MSME In Pune	On going
33		Mr. Rajanikant N. Singh	A Study of Exploring The Online And Offline Distribution Channels For Marketing of Life Insurance And General Insurance In Pune	On going
34		Mr. Ganesh P. Datere	A Study of Customer Satisfaction For FMCG Products of Direct Selling Companies With Special Reference To Amway India Enterprises Pvt. Ltd For Pune City.	On going

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

978-93-5224-208-2, 978-93-5224-208-5
978-93-5077-457-1(CIVIL)
935164148-1, 935164368-9 (IT) 01 (COMP)

3.8 No. of University Departments receiving funds from:

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges

Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-----	-----	---	-----	-----
Sponsoring agencies	-----	-----	---	-----	-----

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations (MoUs)

Sr. No	College	No. of collaborations, MoUs		
		International	National	Any other
1	RMD STIC	02	00	27

3.14 No. of linkages created during this year: Nil

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College
 Total

3.16 No. of patents received

this year

Type of Patent		Number
National	Applied	04
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
	04	---	---	----	---	---

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events: 46

Sr. No	Events	International	National	State	University	NCC	Other	NSS
1	NSS events:	--	--	--	11	-	--	--

3.22 No. of students participated in NCC events:

University level State level
 National level International level

3.23 No. of Awards won in NSS:

University level State level
 National level International level

3.24 No. of Awards won in NCC:

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Sr.No	Event Name	Place
1	Visit to Matroshri Vrudhashram	Matroshri Vrudhashram, Kothrud, Pune
2	Sweet donation to needy children	Deccan , Pune
3	Food donation at Shrisaiseva sadan mentally challenged students on 13 th September 2017	Shrisaiseva sadan
4	Cloth donation at goodwill India welfare on 14 th September 2017	Goodwill India welfare
6	Visit to Girls Blind School	Pune
7	Stem cell donation/organ donation awareness Program	Pune

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	42046.80 Sq. Mtr	-	-	-
Class rooms	43	-	-	-
Laboratories	52	-	-	-
Seminar Halls	06	-	-	-
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	Rasberry –pi kit-04, Arduinio Kits - 03	College	Kit -07
Value of the equipment purchased during the year (Rs. in Lakhs)	-	13,983/-	College	38,773/-
		24790/-	College	
Others	-	-	-	-

4.3 Library services:

S	Type of Book	Existing		Newly added		Total	
		No.	Value	No	Value	No.	Value
1	Text Books	Title:4181 Vol.:15800	74.96	Title:185 Vol.:436	2.48	Title:4366 Vol.:16236	77.44
	Reference Books	2022		--		--	
	e-Books	125	--	25	--	150	--
	Journals	85	2.98	77	1.25	77	1.25
	e-Journals	3 Database	15.75	3 Database	15.75	3 Database	15.75
	Digital Database	Science Direct ProQuest	--	Science Direct ProQuest	--	Science Direct ProQuest	--
	CD & Video	127	--	22		149	--

4.4 Technology up gradation (overall)

Title	Total Computer	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Department	Others
Existing	500	24	YES	-	80	17	462	21
Added	-	-		-	-	-	-	-
Total	462	24	YES					

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

1. Students' training for new technologies through Value Added Programs (VAP)
2. The digital recording in the form of K-Point recording is done for the students as on line help.
3. Project based learning is carried out for the students to understand industrial relevance.
4. The competitions for mini projects as well as major projects are organized to boost hands – on.
5. Faculties are undergoing NPTEL Courses
6. Presentations/animations/videos are regularly being used apart from regular conventional black board teaching.
7. Amcat, Online Test, Employability Test, Placement Aptitude Test, Project Work, Seminar Work

Criterion – V

5. Student Support and Progression

Industrial Training	
Industrial Visits	18
Student Internships	26
Guest Lectures	47
Workshops	08
Value Added Program	05
Webinars	02
Spoken Tutorials	14

5.1 Industrial Visits:

Sr. No	Department	Class	Industry Visited	No. of Students	Date of Visit
1	Civil	TE	Water treatment plant Vadgaon	140	10/04/2018
2		TE	Water treatment plant Vitthalwadi	119	16/09/2017
3		BE	CWPRS Khadakwasala	85	23/08/2017
4		BE	KarveNagar Road Bridge	95	16/09/2017
5		SE	Nirwan Builders for building technology and material	141	11/19/2017
6	Computer	TE+BE	Ruler Dynasty Infotech Pvt. Ltd., Amritsar, Panjab	99	9 /01/2018 to 20/1/2018
7	E&TC	BE	Durdarshan, Sinhadgad Fort Pune	50	23/02/2018
		BE	BSNL Pune	45	20/02/2018

8, 9		TE+BE	Verka Milk vProduction , Amritsar	30	16/01/2018 to 26/01/2018
10	IT	TE+BE	Ruler Dynasty Infotech Pvt. Ltd., Amritsar, Panjab	22	9 /01/2018 to 20/1/2018
11	MECHANICAL	BE	Shri Sant Tukaram Sahakari Sakhar Karkhana Ltd	137	27/03/2018
12		BE	ARAI, Pune	39	7/10/2017
13		TE	City Pride Kothrud Pune	93	3/10/2017
14		SE	Katraj Dairy, Pune	258	27 to 29/09/2017
15		BE	Pawana Dam, Pune	134	23/9/2017
16		BE	Varasgaon & Panshet Dam , Pune	208	22 & 23/9/2017
17		TE	Balgandharv Rangmandir, Pune	165	21/9/2017
18		TE	Accurate Sales & Services Pvt Ltd, Pune	301	5 & 24/9/2017
19	MBA	MBA I	Chowgule and company Pvt. Ltd. (Ship Building Division), Goa	27	21/01/2018 to 25/01/2018

5.2 Efforts made by the institution for tracking the progression

- **TG & CT:** Teacher Guardians (TGs), Class Teachers (CTs) along with HOD are continuously monitoring the students' performance. The term work marks are assigned with proper weight-ages to overall attendance, unit tests conducted in the class, TG evaluation based on extra-curricular activities, practical performance, and timely submission of journals, assignments, and tutorials. The criteria are notified to the students well at the beginning semester.
- **History Card:** Preparation of History Card (looked after by TG) of the students from FE to BE consisting of academic records, activity participation certificates, information of training programs, publications etc.
- **AMCAT:** Conduction of Aspiring Minds Computer Adaptive Test (AMCAT) examinations and its results gives an opportunity for the students to do their

Strengths-Weaknesses-Opportunities-Threats (S-W-O-T) analysis and allow them to think on areas to be improved upon. These examinations are conducted in every semester.

- **QALR & ET:** Quantitative Aptitude and Logical Reasoning (QALR) tests conducted every semester for all the students. Students are exposed to QALR test and Employability Test (ET) multiple times before they actually appear for an actual aptitude test of any industry. These tests are useful in understanding the students' progression.
- **Survey Paper Publication with research approach and Seminar:** STP-IV specially designed for research methodology inputs to students, wherein every student is supposed to write a research survey paper and submit it at the end of semester VI. This gives an opportunity to understand the research attitude of the students.
- **Participation in PG conference:** Students' progression in research can also be understood by performance of the students in PG conferences.
- **Students Counseling and Career Guidance through CPC:** Institute has a structured mechanism for Students Counseling and Career Guidance through Centralized Placement Cell (CPC). Under the guidance of the Principal, CPC officer in coordination with departmental CPC coordinators carry out structured activities related to both career guidance and placement of the students.

Efforts made for tracking the progression-For improvement in Results

- **Unit Tests, Prelim, Mock oral practical examinations:** Two Unit Tests during the semester and Prelim and internal mock practical/oral examination at the end of the semester, are conducted to understand the preparation of the students for university practical/oral examination. The remedial practice sessions are conducted for proper understanding of experiments by the students.
- **Mock examinations:** Conduction of mock online examinations, tutorials, prelim examination and mock practical/oral examinations are useful in preparing and tracking the students' progression throughout the semester. The performances of all such examinations are considered while giving the Term Work (TW) marks. Institute

also conducts project competitions, AMCAT, ET, QALR, quiz and soft skill development activities for the students to prepare them for the placement.

- **Remedial classes are conducted:** After analyzing the result of in-semester examinations, faculty identifies slow learners from the class and takes additional remedial sessions for effective transformation of subject matter to them.

Coaching and Guidance for Higher studies / Competitive Exam. etc.

- 05 orientation and guidance lecture is organized for GRE,GMAT, IELTS.
- 06 guidance sessions are organized for higher studies.
- 04 AMACT examinations are conducted for the students to do their SWOT analysis and understand need based training which is covered in VAP.

5.3

(a) Total Number of students

UG	PG	Ph. D.	Others
531	29	00	-

(b) No. of students outside the state

21

(c) No. of international students

0

Men	<table border="1"> <tr> <th>No</th> <th>%</th> </tr> <tr> <td>425</td> <td>80.03</td> </tr> </table>		No	%	425	80.03	Women	<table border="1"> <tr> <th>No</th> <th>%</th> </tr> <tr> <td>106</td> <td>19.96</td> </tr> </table>		No	%	106	19.96
	No	%											
425	80.03												
No	%												
106	19.96												

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OB C	Physically Challenged	Total
267	28	0	156	-	451	277	29	05	160	-	471

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance:

Students are counselled for higher studies through various guest lectures by experts. Many students get benefit through it. Staff also gives valuable inputs to them.

No. of students benefitted

5.7 Details of campus placement

<i>On Campus</i>		<i>Off Campus</i>	
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
872	405	83	95

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	-	-
Financial support from government	1080	62969864
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision :

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटिबद्धाः वयम् ।

We are committed to produce not only good engineers but good human beings, also.

Mission:

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

6.2 Does the Institution has a management Information System

Computerization of administration: The institution has good computer network and following processes are partially or fully computerized.

- 1) Accounts
- 2) Library
- 3) Online feedback
- 4) Online mid semester examination.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Communication and Soft Skill Courses included in curriculum.
- Faculty take active participation in curriculum detailing organized by Savitribai Phule Pune University and institute.
- Training on teaching-learning pedagogy given to all faculties.

6.3.2 Teaching and Learning

- Minimum 75% attendance is made mandatory to accept the term for each course.
- Monitoring of students attendance in class.
- Well plan teaching methodology.
- Activity based learning in classroom and laboratories.
- Sharing of course material through gems software.
- Use of ICT in teaching-learning process.
- Innovative assessment and evaluation.
- In course and end course examination with continuous assessment to monitor progress of students.

6.3.3 Examination and Evaluation

- For first year and second year, online practice exam is conducted
- Internal assessment for continuous evaluation of students is incorporated.
- Assignments are given to students.
- Unit Tests, Prelim and Mock Examinations for oral/practical exams are conducted.
- After evaluation of exams, remedial classes are conducted for weak students.
- University exams are conducted as per scheduled and faculty are motivated to attend the CAP to check papers.

6.3.4 Research and Development

- Institute organizes various FDPs, seminar, workshops, conference to sensitize the research culture in institute.
- R&D incentive scheme is implemented at institute level to encourage faculty for research.
- Faculties are motivated for submission of research proposals to various funding agencies.

6.3.5 Physical infrastructure / instrumentation

- Campus security using surveillance cameras
- Examination section
- Food and canteen facility improvement with new canteen.
- New laboratories developed in some Dept.

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.12 Activities and support from the Parent – Teacher Association

- A parents' meeting is conducted in every semester
- Teacher guardian informs parents about their ward's attendance and overall performance
- Parent's feedback is taken for improvisation

6.13 Development programmes for support staff

Various events are organized for the development of the staff. Following are the details

- Staff can fill self appraisal form using GEMS software
- Personality Development
- Awareness of NAAC

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Printouts and photocopies are taken on both sides of the paper
- Wasted papers / NEWS papers etc. are forwarded for recycling purpose
- Toner cartridge are recycled
- Biometric attendance is used for all employees
- Greenery campus with ample of trees is maintained.
- Tree plantation and maintenance is done.
- Energy saving is implemented. Lights and fans of class room are switched off after the lecture is completed.
- Department propagates the importance of energy conversion by intimating staff and students to turn of light and fans whenever not required.
- Department creates awareness amongst staff and students to turn of water taps whenever not required.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details

1. Internships are scheduled for students through MoUs
2. NPTEL and other video Lectures for activity based learning.
3. Arranged Industrial Visits to get hands on exposure on projects and Industrial working.
4. Use of ICT for Active Teaching Learning.
5. Industry-Institute interaction through Guest lectures and add on courses.
6. Motivating students by giving them awards for their performance in department, extracurricular activities and social services.
7. For Second year students practice sessions before online examination was conducted. In this session per day one subject is scheduled and according to that students are communicating with concern faculty members for discussion of MCQ's.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

1. To recruit more Ph.D. faculties in the institute.
2. Fetch more funding from various apex bodies.
3. To improve communication and Aptitude skills of students.
4. Define Quality Objectives. Communicate to all concerned. Initiate actions, monitor, analyze and review.
5. Suggest participatory and innovative teaching methodologies, and evaluation techniques.
6. Organized FDPs for faculty development.
7. Workshops and IVs for students are scheduled at the start of semester.

7.3 Give two Best Practices of the institution

1. Industrial training provided to the students so as to increase their knowledge in industry point of view.
2. Students are encouraged to do NPTEL courses for knowledge enrichment.

8. Plans of institution for next year

1. To increase faculty efforts to procure research funding from various funding agencies.
2. To conduct Pedagogy workshop for faculty
3. To form Patent Cell and support patenting
4. To conduct orientation program for newly joined faculty
5. To organize National / International conferences in Multidisciplinary areas
6. Improvement in results



Name: Mrs. Snehal A. Bhosale

Signature of the Coordinator, IQAC



Name: Dr. V. V. Dixit

Signature of the Chairperson, IQAC

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission



Sinhgad Institutes

Sinhgad Technical Education Society's

RMD SINHGAD TECHNICAL INSTITUTES CAMPUS

Off.: S. No. 111/1, Warje, Pune - 411058 Tel.: 020 - 25218402 Telefax: 25218405 E-mail: rmd-ssoe@sinhgad.edu Website: www.sinhgad.edu
Regd. Off.: STE Society, 19/15, Erandwane, Smt. Khilare Marg, Off. Karve Road, Pune - 411 004 Telefax: +91-20-25459751 Web: www.sinhgad.edu

12/06/2017

ACADEMIC CALENDER /SE- 2017-18 / SEMESTER –I

Sr. No.	Particulars	Date & Day
1.	Commencement of Teaching	15 th June 2017 (Thursday)
2.	Unit Test-I (30 Marks / 1hour/ Unit 1,2)	31 st July – 2 nd Aug 2017(Mon-Wed)
	Declaration of Result of Unit Test-I	3 rd Aug 2017 (Thur)
3.	Mid Term attendance display	16 th Aug 2017(Wed)
4.	Mid Term Submission *	21 st Aug – 25 th Aug 2017 (Mon-Fri)
5.	Unit Test-II (30 Marks / 1hour/ Unit 1,2,3 &4)	28 th Aug-30 th Aug 2017 (Mon - Wed)
6.	Declaration of Result of Unit Test-II	31 st Aug 2017 (Thur)
7.	Conclusion of Teaching & Display Final Defaulter List	29 th Sept 2017 (Fri)
8.	Prelim Exam (50 Marks / 2 hours/ All 6 Units)**	3 rd Oct-7 th Oct(Tues-Fri)
9.	Declaration of Result of Prelim Exam	9 th Oct 2017(Mon)
	Reprelim Examination , Mock Practical & Final Submission	9 th Oct-13 th Oct (Mon-Fri)
10.	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical	9 th Oct 2017(Mon)
11.	Completion and display of T/W marks	10 th Oct 2017(Tue)
12.	University Examinations: a. Practical/Oral	24 th Oct-9 th Nov 2017
	b. Theory (End Sem)	14 th Nov onwards

*** 50% Submission should be completed & duly certified by the Faculty & HOD.**

Holidays as per Circular from Savitribai Phule Pune University.

All these activities need to be incorporated in academic calendar of the department.



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12/06/2017

Sr. No.	Particulars	Date & Day
1	Commencement of Teaching	15 th June 2017 (Thursday)
2	Unit Test-I (30 Marks / 1hour/ Unit 1,2)	31 st July – 2 nd Aug 2017(Mon-Wed)
	Declaration of Result of Unit Test-I	3 rd Aug 2017 (Thur)
3	In Sem exam (30 marks / 03 units-1, 2 & 3)	7 th Aug-12 th Aug (Mon –Sat)
4	Mid Term attendance display	16 th Aug 2017(Wed)
5	Mid Term Submission *	21 st Aug – 25 th Aug 2017 (Mon-Fri)
6	Conclusion of Teaching & Display of Final Defaulter List	29 th Sept 2017 (Fri)
7	Prelim Exam (70 Marks / 3 hours/ All 6 Units)**	3 rd Oct-6 th Oct(Mon-Fri)
8	Declaration of Result of Prelim Exam	9 th Oct 2017(Mon)
9	Mock Practical & Final Submission	9 th Oct-13 th Oct (Mon-Fri)
	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical	9 th Oct 2017(Mon)
10.	Completion and display of T/W marks	10 th Oct 2017(Tue)
11	University Examinations: a. Practical/Oral	24 th Oct-9 th Nov 2017
	b. Theory (End Sem)	14 th Nov onwards

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7.	Prelim Exam (70 Marks / 3 hours / All 6 Units)**	3 rd Oct-7 th Oct(Mon-Fri)
	Declaration of Result of Prelim Exam	9 th Oct 2017(Mon)
8.	Mock Practical and Re prelim Exam & Final Submission	9 th Oct-13 th Oct (Mon-Fri)
9.	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical	9 th Oct 2017(Mon)
10.	Completion and display of T/W marks	10 th Oct 2017(Tue)
11.	University Examinations: a. Practical/Oral b. Theory (End Sem)	24 th Oct-9 th Nov 2017 14 th Nov 2017 onwards

*** 50% Submission should be completed & duly certified by the Faculty & HOD.**

Holidays as per Circular from Savitribai Phule Pune University.

All these activities need to be incorporated in academic calendar of the department.

Current Members of IQAC

Sr. No.	Name	Designation and affiliation
Chairperson		
1	Dr. V. V. Dixit	Director / Principal
Members from the Management		
2	Prof. M. G. Bhat	Member – Director (Engg.)
3	Prof. S. B. Pharkute	Director (Academics)
Academics Members		
4	Prof. S. Mulik	Dean, Acedemics
5	Prof. Dr. M. V. Nagarhalli	Head – Mechanical Engg.
6	Mrs. Veena Lomte	Head – Computer Engg.
7	Mrs. Shweta Kale	Head – Information Technology
8	Mr. Rahul Shinde	Head – Civil Engg
9	Dr. S.P. Jagtap	Head – Basic Sciences
10	Mr. A.R.More	Asst. Professor – E & TC Engg.
Administrative Officers		
11	Mr Mahesh Swami	Coordinator – Training and Placement
12	Mr. Lt. (Rtd.) Prabhakaran K.K.	Office superintendent
13	Mr. Dnyaneshwar Ghuge	NSS Officer
Student, Alumni and Local Society		
14	Mr. Ashutosh Patil	Alumni
15	Mr. Aditya Joshi	Student council
16	Mrs. Jaymala Mhatre	Parent

Employers/Industrialist		
17	Dr. Vishwas Udupikar	Director, Wavelet Technologies Pvt. Ltd. , Pune
18	Mr. Nitin Lokhade	Director, Educate to Automate, Pune
Coordinator IQAC		
19	Mrs. Snehal Bhosale	Head – E&TC Engg.

A Report by NSS Activity conducted for A.Y. 2017-18



Sinhgad Institutes

Sinhgad Technical Education Society's

RMD Sinhgad Technical Institutes Campus,

Warje, Pune.- 411058



NATIONAL SERVICE SCHEME UNIT

National Service Scheme unit of RMD Sinhgad Technical Institutes Campus, warje was formed in the academic year 2016-17. Our NSS Department organized various events like blood donation Camps, plantation programs, Shramadaan programs, Health awareness programs, computer literacy program and cleanliness drive for the betterment of society. NSS is an Indian government sponsored public service program conducted by Ministry of Youth Affairs & Sports Govt. of India, Launched in Gandhiji's Birth Centenary Year 1969. Aimed at developing student's personality through community service. NSS unit has dual benefits one is for the betterment of society at large and the other perspective is for the development of students in terms of understanding the social challenges and issues which need to be resolved for the purpose of social development.

Sr. No.	Academic Year	No. of activity conducted
1	2016-17	13
2	2017-18	11

N.S.S. Unit Activity details (Academic Year 2017-18)

National Service Scheme Unit organized following activities during the academic year 2017-18.

Special Winter Camp (13/12/2017 to 19/12/2017)

N.S.S. Unit organized Seven Days Special Winter Camp at Ghotawade Village on 13/12/2017 to 19/12/2017.

No. of Students Participated:-50

No. Faculty Coordinators:-05

Program organized during winter camp:-

1. Village survey.
2. Save girl child drive.
3. Plastic awareness.
4. Street Play.
5. Tree Plantation Drive.
6. Guest Session (Financial Literacy)
7. Computer Literacy program at New English School, Ghotawade.
8. Health Awareness Drive





Village Survey and Tree Plantation Drive



Morning March-past to generate Health Awareness.



Street Play on "Save Girl Child".

Regular Activity Details

Regular Activities organized under N.S.S. Unit during the Academic year 2017-18 are as follows

1. Visit to Sumati Balwan Orphanage:- (31st Dec.2017 and 01st Jan 2018)

The N.S.S. Unit of RMDSTIC visited sumati balwan on 31st Dec.2017 and 1st Jan.2018.

- a. Distribution of Education Kits to the students.
- b. N.S.S. Volunteers did the gardening and removed the shrubs around and watering the plants.
- c. Cleanliness Drive at Sumati Balwan.

2. National Unity Day Celebration:- (31st Oct.2017)

National Unity day is celebrated every year on 31st October. It is celebrated to commemorate the birth anniversary of Sardar Vallabhbhai Patel who really unified the country. Our NSS unit organized senior student interaction session on the occasion of National Unity Day on 31 Oct. 2017.

3. Vachan Prerana Divas:- (13th Oct.2017)

On 13th Oct.2017 our N.S.S. unit organized Vachan Prerana Divas in coordination with Library Department.

4. Street Play Event:- (9th October 2017)

Street Play Event was organized by our N.S.S. Unit on 9th October 2017. All NSS coordinators were involved in the event. Students performed a street play on "Save Girl Child" creating awareness for "BETI BACHAO BETI PADHAO" Campaign.

5. Blood Donation Camp:- (9th October 2017)

Blood donation camp was organized in association with SKN Hospital blood bank on 9th Oct.2017. The response received from the students and all the staff members of RMD STIC was very enthusiastic. Around 150 students and staff members are participated in the drive.

6. Cloth Donation Drive:- (5th Oct. to 14th Oct. 2017)

Cloth Donation Drive organized in association with Goodwill India Charitable Trust. All student volunteers and Staff members are involved in the drive.

7. Pune Cyclothon organized by University N.S.S. Department

(17th September 2017) :-

RMD Sinhgad Technical Institutes campus, National Service Scheme Unit co-ordinate the event “Cyclothon” organized by University N.S.S. Department.

Cyclothon Activity was organized on 17th September 2017.

8. Visit to Goodwill India Charitable Trust (14/09/2017):-

Organized a visit to Goodwill India welfare for Cloth Donation on 14/09/2017.

The program was started with greeting to founder of the trust and all staff members communicated with workers. The work they are doing is highly appreciable.

9. Datri Stem Cell Donation Drive:- (13th Sept.2017)

Datri the blood stem cells registry came to RMDSTIC on 13th Sept.2017 on eve of “World marrow donar day”. The recent trend can be observed that about thousands are suffering from the stem cell cancer and datri developed a solution to deal with the cancer by curing or we can say for the purpose of prevention for future consequence of cancer occurring.

10. Visit to “Shree Sai Seva Sadan”.(13/09/2017):-

The program was a combination of food and books distribution to the students of shri Sai Seva Sadan. The program was started with interaction with students and founder. Shri Sai Seva Sadan is the School and hostel of mentally challenged students

11. Mula-Mutha Pollution Free Camp:- (5th Sept. 2017)

RMD STIC National Service Scheme Unit organized the “Mula Mutha Pollution Free camp” and “Clean City Drive” on the occasion of Ganapati Visarjan at Garware chouk near Deccan Corner, Pune on 5th Sept. 2017.





MULA-MUTHA POLLUTION FREE CAMP AND CLEAN CITY DRIVE



STREET PLAY- SAVE GIRL CHILD



BLOOD DONATION CAMP

Guest Lectures in AY 2017-18

Sr. No	Dept	Name of the Expert Speaker and Organisation	Topic of the Lecture	Date	Duration
1	Civil	Mr. R B Dave	Dams and Hydraulics	19/09/2017	2hrs
2	Computer	Mr. P. N. Santosh Manager Byju's Class, Banglore	Seminar on Indian and International Education by Byju's Class	11/7/2018	1:30 Hrs
		Ms. Bhagyashri Raut Manager PCM Cloudtech PVT. LTD.	Guest Lecture on Entrepreneurship Guidance for Web Developement	12/07/2018	2 Hrs
		Mr. Amol Aher India Head KasNet Technologies Pvt. Ltd., Pune	Workshop on Carrier Guidance	04/07/2018	2 Hrs
		Mr. Manoj Gosavi Head Operations Jamboree Education Pvt. Ltd., Pune	Guest Lecture on Guidance for GATE Exam	25/07/2018	1:30 Hrs
		Prashant Jagdale Director Coperbyte Software Solutions, Pune	Seminar on Software Developement Life Cycle	25/07/2018	1:30 Hrs
3	E&TC	Smart city development	Mr.Tanul Mohod,CEO <u>Opulent Infotech Pvt. Ltd.</u>	07/07/2017	2 Hrs
		Career opportunities in industry after engineering	<u>Mr. Kanhaiyya Gorane,</u> Vice President Operations USA at Alfa Laval Inc	24/072017	2 Hrs
		Career opportunity in Electronic and	Mr.Hemant Dusane, Manager – Information	01/08/2017	2 Hrs

		communication field	Security		
		Audit Course on cyber and Information Security	Mr. Prashant Lahane Module Lead, Persistant Systems Ltd, Pune	01/09/2017	2 Hrs
		Career Opportunity in Industrial Automation	Mr. Nitin Lokhande, Director, Educate To Automate Pvt. Ltd.	20/06/2017	2 Hrs
		Applications in Embedded System	Manish Patil, Founder Director, Samruddhi TBI Foundation	04/07/2017	2 Hrs
		Industrial Automation using PLC sector	Mr.Yogesh Raibole Educate To Automate Pvt. Ltd.	12/09/2017	2 Hrs
4	IT	Mr. P. N. Santosh Manager Byju's Class, Banglore	Seminar on Indian and International Education by Byju's Class	12/07/2018	2 Hrs
5	Mechanical	Mr.Vikas Chaudhary CEO and Founder Hackers Era Cyber SEcurity	Hands on session on Ethical Hacking	5/7/2017	2 Hrs
		Mr. Yogesh Ranga Marketing Sr. Ex The Chopras	Guest lecture on Higher Studeies /Carrier Guidance	23/8/2017	2 hrs
		Mr. Diwipay DiwanHead of Operations Gig India	Guest Lecure on Skill development	13/9/2017	1 hrs
		Mr. Amulya Ratan Sr. Faculty Vani Institutes	Guest lecutre on Competeive Exams	31/8/2017	1 hr
		Mr. Swapnil Kolhe	Motivational Speech on Engineering	18/07/2018	2 Hrs

6	MBA	Mr .Vishwas Kajrekar	Guest Session on Marketing Management	1/8/2017	2 Hrs
		Mr.Aniruddha Kothurkar,GM - Technofour Group	Guest Lecture on General Management		

Total Guest Lectures in 2017-18 are **20**