



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		N. B. NAVALE SINHGAD COLLEGE OF ENGINEERING, KEGAON, SOLAPUR
Name of the head of the Institution		Shankar Dattatray Nawale
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		0217-2500610
Mobile no.		8788634831
Registered Email		principal.nbnscoe@gmail.com
Alternate Email		iqac.nbnscoe@gmail.com
Address		Gat.No.38/1/B, Kagaon , Solapur-Pune Highway Solapur
City/Town		SOLAPUR
State/UT		Maharashtra
Pincode		413255

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Shashikant Hippargi</b>
Phone no/Alternate Phone no.	<b>02172500611</b>
Mobile no.	<b>8087162999</b>
Registered Email	<b>principal.nbnscoe@gmail.com</b>
Alternate Email	<b>iqac.nbnscoe@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="http://sinhgadsolapur.org/EdSite/aqar/">http://sinhgadsolapur.org/EdSite/aqar/</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://sinhgadsolapur.org/EdSite/academic-calender/">http://sinhgadsolapur.org/EdSite/academic-calender/</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>A</b>	<b>3.12</b>	<b>2018</b>	<b>26-Sep-2018</b>	<b>25-Sep-2023</b>

<b>6. Date of Establishment of IQAC</b>	<b>01-Oct-2018</b>
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<b>7. Internal Quality Assurance System</b>
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Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>One Day Workshop on KOHA</b>	<b>12-Oct-2018</b>	<b>10</b>

and Library Automation	01	
One day Workshop on Moodle Learning Management System-	15-Mar-2019 01	29
One Day Workshop on Scilab	04-May-2019 01	16
Optimization techniques with Engineering Applications	10-Dec-2018 05	12
Mathematical Techniques in Solving Engineering Problems	29-Apr-2019 05	14
NBA Accreditation	22-Apr-2019 05	25
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	Women Scientist Scheme A	DST	2019 1095	1343000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Yes
If yes, mention the amount	41000
Year	2019
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	

1. Created Infrastructure environment for conducting online FDP/STTP by IITs NITTR 2. Organized Entrepreneurship development program for students 3. Created awareness for higher studies in abroad among students 10 students got admission for M.S in foreign universities(A.Y. 201920 ) 4. Received 3 star for establishing Institution Innovation council (IIC) by MHRD Gov of India 5. Applied received copyright by institute and students for innovative project.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To increase number of students for higher education in abroad	10 Students got admission in MS in foreign universities
To provide financial support to IPR and Copy right for innovative projects	Applied for copyright of one project from mechanical branch and received copy right for the same
To improve recognition of college at national level	Received 3 star for establishing IIC (Institutional Innovation Council) by MHRD Govt. of India
To Conduct workshops on Entrepreneurship Development Programs	Conducted 6 weeks Technical Entrepreneurship Development Programs (TEDP) for students under MIT-TBI and DST for 31 students from all branches
To conduct workshops/STP for teaching and non teaching staff	Workshop on Library automation System by IIT Bombay and National Virtual Library of India sponsored by ministry of culture, Government of India. Total 10 participants got benefited. One day workshop on Moodle learning management system by IIT Bombay for 29 teachers. Course was designed for students, Assignments and Tests were conducted through Moodle platform.

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**14. Whether AQAR was placed before statutory body ?**

No

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2019

Date of Submission	08-Feb-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Management Information System: 1. ERP for Office Automation 2. Talley ERP9 3. Master Soft ERP Solution 4. FTP Server 5. Centralized online appraisal on cloud. 6. Online Feedback software</p> <p>1. ERP for Office Automation: a. For office automation ERP software is available where data base of students such as name, branch, address, date of birth, date of admission category etc are stored from first year to last year. b. For the purchase of material, payment of bill, vendor, expiry date etc, maintenance of records in Central Store, ERP software is used</p> <p>2. Talley ERP9: Talley is used for financial management such as purchase, vouchers, student fee details, monthly expenses. This software is also used to categorize the financial details according to different fields.</p> <p>3. Master Soft ERP Solution: Following work is done through this software</p> <p>a. Acquisition and Cataloging: Entry of new books and categorizing of books using different fields can be done.</p> <p>b. OPAC (Online Public Access Catalogue): Books can be searched by Title, Author, Publisher, Year, Class number, ISBN etc. A separate computer system is available for students to search the books.</p> <p>c. Circulation: In this Borrower details, issue of book and return of book can be maintained. Also, printing of borrower card, printing of bar code etc. can be done</p> <p>d. 130 kind of different reports can be generated, for example: list of books, books issued in a week or month, Investment on books for each departments etc.</p> <p>e. Serial Control: Records of daily newspapers, Magazines, Journals etc can be maintained.</p> <p>4. FTP Server: Using FTP server data base of all branches such as question papers, notes, e books, MCQs, Assignments are available. A link is provided on website for accessing these data base by students.</p> <p>5. Centralized Online appraisal form is made available on cloud where teaching and non teaching staff can fill their</p>

appraisal forms annually. It has various field and markings by which academic performance indicator (API) is calculated and communicated to staff members. 6. Online feedback forms are made available through server where student can give online feedback of teachers. A report is generated which is made known to teachers.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institute practices a well planned structure for effective curriculum delivery and its documentation. Academic activities are usually performed in three stages of semester A. Before commencement of semester:

- Workload is distributed in accordance with the choice of subjects given by teacher.
- For new subjects teachers are advised to go for NPTEL certification / Workshops. Teachers are also advised to use different ICT tools for effective delivery of subjects.
- Peer team discussions with senior staff members are also carried out.
- Notes, Question bank and assignment questions are designed according to the curriculum of Punyashlok Ahilyadevi Holkar Solapur University Solapur (PAHSUS). Soft copy of the same is made available through FTP server to students.
- Academic calendar is prepared well in advance and teacher prepares teaching plan in accordance to the Academic calendar. Also, department plan their academic activity and time tables in-line with Academic calendar.
- Teachers are instructed to prepare course file according to well defined content suggested by IQAC
- Internal Quality Assurance Cell prepares schedule and execute verification of teacher's course file and suggest for any corrections, if needed.
- Purchase and testing of equipments / material required / ICT facility for class rooms and laboratories is done.

B. During the Semester:

- Induction program is conducted for newly admitted students to make them aware of academic culture of institute, code of conduct, curriculum, and norms for ISE / ICA and activities planned during the semester.
- Commencement of theory and practical sessions is done in accordance to teaching plan and time table.
- Teacher Guardian (Mentor) conducts meeting every fortnight with students for any problems faced by students related to understanding of subjects. Same is communicated to subject in-charge through Head of Department.
- On first day of every month students attendance and defaulters list is displayed and same is communicated to parents through phone call/SMS/ letter.
- Review of monthly attendance and completion of syllabus is taken by IQAC and suggestion is given to teacher to conduct extra classes for lagging syllabus
- Review of feedback is taken twice in a semester and corrective actions are taken accordingly
- Evaluation of journal and assignments is done regularly. Mid Semester submission and End semester submission is carried out to check for completion of all practical and assignments.
- ISEs are conducted twice in a semester. Evaluation and analysis of result is done by teacher and communicated to IQAC. Remedial theory and practical sessions are conducted for slow learners to improve the result in next ISE.
- Results are communicated to students and parents. Parent meet is arranged once in a semester to discuss about student's progress.

C. End of Semester:

- At the end preliminary exams and Mock Practical and Oral Exams (POE) are conducted.
- Final ISE and ICA is displayed and students are asked to check for any grievances.
- Outcomes of all the

activities during the semester are analyzed and corrective measures are suggested by IQAC for next semester.

### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NA	CNC Training	16/11/2018	60	Employability / entrepreneurship	1) Use of computers in manufacturing and automation 2) development of programs using G codes and M codes
TTL DRE Program on CATIA	NA	09/07/2018	120	Employability	3D modeling

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Mechanical Engineering	02/07/2018
BTech	Electrical Engineering	02/07/2018
BTech	Electronics & Telecommunication Engineering	02/07/2018
BTech	Computer Science & Engineering	02/07/2018
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Mechanical Engineering	02/07/2018
BTech	Electrical Engineering	02/07/2018
BTech	Electronics & Telecommunication Engineering	02/07/2018
BTech	Civil	02/07/2018
BTech	Computer Science & Engineering	02/07/2018

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	130	31

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
CATIA	13/06/2019	26
CATIA	20/12/2018	16
ERP HIT Software	15/03/2019	67
Etabs	15/02/2019	11
Staad Pro	12/02/2019	9
ERP HIT Software	16/08/2018	5
Python Scripting Language	24/12/2018	3
Python for Data Science and Introduction to AI	24/06/2019	26
Fundamentals of C and Web Design	25/06/2018	13
Placement C	25/06/2018	22
PCB Design	18/06/2018	25
Python Scripting	11/06/2018	12
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#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	E- Commerce Website	5
BE	Website for a Coffee Shop	6
BE	Alumni Smart Connect through App	4
BE	Website for College	5
BE	Online Examination	9
BE	Online Job Portal	6
BE	Online Notice Board	4
BE	Journey Website	4
BE	City Guide App	4
BE	NSS Web Application	5
BE	Website for a Flower Shop	3
BE	Online Shopping	3
BE	Industrial Training	224
BE	Commercial/Residential Training	44
BE	Infrastructural Training	5



BE	Managerial/Executorial Skills	23
BE	Vocational Training	64
BE	Industrial Training at Divisional railway Management Office , Solapur	30
BE	Industrial Training at AFTEK Ltd, Solapur	14
BE	City Guide App	9
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#### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Institute has both Online and Offline feedback systems for different stake holders. Students: Feedback from students are taken under three different categories: A. Students feedback for teacher: Institute have an online system to take teachers feedback by students. Twice in a semester feedback is taken i) In middle of semester: After taking online feedback it is analyzed by IQAC. In case of low feedback (less than 75), teachers are counseled and advised for improvement in second feedback. ii) End of Semester: Second feedback is analyzed for improvement of teachers first feedback. Again if a teacher gets both the feedbacks less than 75 then a letter is issued for improvement and if it doesn't improve then corrective action is taken. Also, appreciation letters are given to teachers with 100 feedback. B. Students Satisfaction Survey: Online feedback is taken for students satisfaction inline with the student satisfaction survey of NAAC. It is analyzed and discussed in IQAC meeting and corrective measures are taken. C. Achievement of Course Outcome: Feedback is taken by students after completion of each course for the achievement of course outcome. It is again discussed in IQAC meeting and teachers are advised to practice various new techniques to attain course outcome in case of low achievement. Teachers: Feedback is taken from our institute, External Examiners and other institutes' teachers on curriculum, course outcome and program outcome developed by University. After analysis and discussions, improvements are suggested to subject teachers so that it can be put in front of Board of Studies at the time of new syllabus formation. Feedback from external examiners (for Practical and Oral Examination) for students they examine, exam conducted, experiments conducted and list of experiments is taken. Improvements are carried out for good suggestions. Employers: Employers feedback for the placed students their technical performance, lifelong learning skills, Team work, ethics are taken. Different activities are planned and introduced for current students in accordance with the analysis of feedback for better placements. Alumni: Online feedback from Alumni is taken for improvement in all aspects of institute such as improvement in syllabus, improvement in infrastructure,</p>

improvement in alumni activities, support to current students, skills needed by students, so that they can compete better at the time of placement. Apart from this feedback is also taken at the time of alumni meet which are noted and communicated to IQAC by Alumni Cell. Parents: Offline feedback is taken by parents for improvement in their ward, expectation for any special class, activities to be taken for skill development and for any improvement in institute for overall development of students. All these feedback is put up at the time of IQAC meeting. Discussion as well as suggestions are noted down and communicated to proper authorities for corrective actions. At the time of General meeting with all teaching and non teaching staff members general feedbacks are shown to them for suggestions for overall development of institute.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Mechanical Engineering	180	13	13
BTech	Electronics & Telecommunication Engineering	120	8	8
BTech	Computer Science & Engineering	60	56	56
BTech	Civil Engineering	60	14	14
BTech	Electrical Engineering	60	13	13

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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1668	53	92	12	104

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
104	104	15	23	5	13

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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Students Mentoring System (Teacher Guardian Scheme): As our institute gets admission from weaker socioeconomic background students, so need of teacher guardian scheme is very well understood at the initial stages. As a result of this Teacher guardian system was in place since the inception of institute. Institute believes strongly in Teacher Guardian (TG) scheme which is followed very rigorously and properly by all Teacher Guardians. Improvement in TG scheme is continuously done in accordance with IQAC. One TG is assigned to a group of 1520 students who take cares of students academic as well as personal issues. For first year students have TG from first year teaching staff. When TG is assigned in first year to students they fill up on form which is available with them till final year. When student enters Second year new TG in specific branch is assigned who is available with students from Second Year to Final year, So that behavior and performance of students is well known to TG. TGs keep track of students attendance, results as well as any problems faced by students in the institute. A well structured students form for TG scheme and manual for teachers are designed. Teacher Guardian Manual: In this Manual vision, mission, quality policy, goals, rules, regulations, telephone records, student meeting records, term grant certificated and duties to be performed by Teacher guardian is mentioned. For each semester Teacher guardian maintains meeting records, problem faced by students and action taken for problems raised by students. TG also maintains the communication done with parents through call/SMS/letter. Students and Parents are asked to remain in contact with TGs continuously. Institute also implement 'TG at home' concept where TG personally visit their students home twice in a semester. Due to this concept teacher develop a healthy bonding with parents and students. It also helps TG to understand students' background which in turn helps TG to counsel the student in a better way. Improvement in result, overall development of students and placements is observed due to this scheme. Students maintain a TG report from first year to final year which includes: 1. Code of Conduct 2. Family Back ground 3. Students aspiration 4. Hobbies and Interests 5. SWOC analysis 6. Parents Aspiration 7. Students behavioral patterns based on different parameters 8. Personal information: students information, contact details, address, parents information and medical problems if any. 9. Semesters percentage of Attendance, Result of all tests, preliminary examinations, Final examination, Grades 10. Activity record which includes Value Added Programs attended, papers presented, workshop attended, participated in lab innovation programs etc. 11. Achievements in sports, social work, cultural and placements. 12. Complaints raised 13. Remarks by TG and H.O.Ds This TG report gives overall information of students which help TG to analyze, provide suggestions and action to be taken for overall development of students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1721	104	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
114	104	10	3	6

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mr. S. M .Shaikh	Assistant Professor	Got Elite certificate in online course Fundamentals of Manufacturing Processes conducted by IIT kharagpur under National

			program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. H.V.Shinde	Assistant Professor	Got Elite certificate in online course Fundamentals of Manufacturing Processes conducted by IIT kharagpur under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Dr.H.B.Kulkarni	Assistant Professor	Awarded with Ph.D. by VIT Vellore
2018	Dr.H.B.Kulkarni	Assistant Professor	Got National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India) Elite certificate in online course Fundamentals of Manufacturing Processes conducted by IIT kharagpur
2018	Mrs K S Bhosale	Assistant Professor	Got Gold Medal Elite National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. S B Aware	Assistant Professor	GATE Exam Civil Qualified
2018	Mr. Ravikant S Khamitkar	Assistant Professor	Got Gold Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mrs. Kirti S	Assistant	Got Elite

	Bhosale	Professor	certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Hemantkumar V Shinde	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Imran J Shaikh	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Ganesh C Jawalkar	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Imran J Shaikh	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Vinay N Jokare	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Vikas R Marathe	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)

2018	Mr. Junaid A Jamadar	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Sachin M Rangdal	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2018	Mr. Vivekanand D Phadatare	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. MUDASSAR H. NAIKWADI	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. SACHIN M. RANGDAL	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. VINAY N. JOKARE	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. IMRAN J. SHAIKH	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)

			India)
2019	Mr. IMRAN J. SHAIKH	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. VIKAS R. MARATHE	Assistant Professor	Got Elite certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. VINAY N. JOKARE	Assistant Professor	Got certificate under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. .H.V.Shinde	Assistant Professor	GATE Qualified in Mechanical Engineering
2019	Dr.H.B.Kulkarni	Assistant Professor	Got Elite Certification From IIT Kharagpur under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr. S. M .Shaikh	Assistant Professor	Got Elite Certification From IIT Kanpur under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)
2019	Mr .R.R.Honakalas	Assistant Professor	Got Elite Certification From IIT Kharagpur under National program on Technology Enhanced Learning (Founded by Ministry of HRD Government of India)

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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	ME	Semester I	14/12/2018	20/01/2019
BE	ME	Semester II	25/05/2018	20/06/2019
BE	CE	Semester I	14/12/2018	20/01/2019
BE	CE	Semester II	25/05/2018	20/06/2019
BE	ETCE	Semester I	14/12/2018	20/01/2019
BE	ETCE	Semester II	25/05/2018	20/06/2019
BE	CSE	Semester I	14/12/2018	20/01/2019
BE	CSE	Semester II	25/05/2018	20/06/2019
BE	EE	Semester I	14/12/2018	20/01/2019
BE	EE	Semester II	25/05/2018	20/06/2019

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

NBNSCOE, believes in nurturing all graduate attributes for overall development of students. Institute yearly reforms in accordance the requirement and feedback provided by different stake holders. Institute has a very transparent and robust mechanism for continuous internal evaluation. Reforms also incorporate all guidelines by PAHSUS. NORMS FOR CONTINUOUS AND INTERNAL ASSESSMENT (TERM WORK) COMPULSORY NORMS Sr. No. Particulars FE SE TE BE 1 Attendance ( Theory, Practical, TG Meeting, LCD) (Minimum 75 ) 50 50 50 50 2 Unit Test Marks ( I II ) 20 15 15 20 3 Prelim Examination Marks 20 15 15 4 Continuous Assessment of Practical / Assignments / Tutorials / Design Experiments 10 10 10 15 5 Mock Practical Examination 10 10 15 TOTAL 100 100 100 100 Norms For Over And Above Marks Sr. No. Particulars Marks 1 More than 60 Marks in Previous University Exam Total 5 2 Lab Innovation / Project Competitions Out of 10 3 Value Addition Program (VAP) Out of 10 4 E Journal Papers Out of 05 5 Published / Presented in International Journal or Conference in Out of 10 6 National Journal or Conference Out of 05 Sports Cultural Winners / Runners at Institute Level Competitions 03/02 at University Level Competitions 05/04 Representation at State Level Competitions 07 National Level Competitions 09 International Level Competitions 10 Presentations on Soft Skill, LCD, GD, Projects etc. Out of 10 SE Out of 10 TE Out of 15 BEI Out of 25 BEII

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institute prepares academic calendar before the commencement of every semester which is made available to students, teaching, non teaching staff and also on website. Academic Dean in concern with HODs and Principal prepares the academic calendar in line with the University's calendar and feedbacks given by IQAC after analyzing feedbacks from all stake holders. Different activities are suggested by IQAC to included in academic calendar. Departments must strictly adhere to academic calendar for any kind of activities to be planned during the



semester. Teachers prepare subjects teaching plan according to working days available according to calendar. Calendar provides information about dates for 1. Start of semester 2. End of semester, 3. Available days for teaching 4. Conduction of In Semester Examination (ISE) 5. Declaration of results 6. Display of attendance 7. Holidays 8. Syllabus review 9. Online feedback 10. Industrial Visits 11. Display of final ISE/ICA marks 12. Activities such as lab innovation, Value Added Programs, National level tech fest, sports, Annual gathering, Mock POE, Submissions, Parents meet, NSS camp, Induction program for first year as well as second year engineering students, Alumni meet, Prayog(Institute level project competition, TechnoSinh (Institute level tech fest) etc. According to academic calendar it becomes easy for all students, teaching and non teaching to plan their activities. For Exam coordinators it helps in preparation of examination halls, laboratories, question papers, declaration of results in time.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://sinhgadsolapur.org/EdSite/syllabus/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME	BE	Mechanical Engineering	320	317	99.06
CE	BE	Civil Engineering	72	72	100
EE	BE	Electrical Engineering	58	55	94.82
ETCE	BE	Electronics & Telecommunication Engineering	104	98	94.23
CSE	BE	Computer Science & Engineering	67	67	100

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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://sinhgadsolapur.org/EdSite/institute-feedback/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year

Students Research Projects (Other than compulsory by the University)	365	TATA Technology, Pune	0.5	0.5
Industry sponsored Projects	365	Ultratech cement, Solapur	0.09	0.09
Major Projects	365	Solapur Municipal Corporation	0.35	0
Industry sponsored Projects	365	Achintya Automation, Solapur	0.03	0.03
Major Projects	365	Saksham Medicare equipments Services, Solapur	0.05	0.05
Minor Projects	365	ATMA	0.5	0.5
Any Other (Specify)	365	KrishnaKamal Scholarship	0.02	0.02
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Catch Them Young	Civil Engineering Department	18/01/2019
Workshop on Concrete Mix Design	Civil Engineering Department	17/10/2018
Seminar on Civil Engineering Software Awareness	Civil Engineering Department	03/08/2018
Entrepreneurship Awareness Camp (EAC)	Electrical Engineering Department	28/09/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
An innovative method for reducing vibrations in Ambulance	ABHIVYAKTI	BMIT, SOLAPUR	24/01/2019	National
Design and Development of innovative Gadget For the	SPARKX 2K18	SKN PANDHARPUR	29/09/2018	State

Safety of Girl Child				
An innovative method for reducing vibrations in Ambulance	Tata Technology, Pune	Tata Technology, Pune	22/11/2018	Cooperate Social Responsibility Sponsorship
An innovative method for reducing vibrations in Ambulance	RADIANCE ( VAIGYANKI )	IIT , MUMBAI	16/03/2019	National
An innovative method for reducing vibrations in Ambulance	IGNITED INNOVATORS OF INDIA	COEP PUNE	30/03/2019	National
An innovative method for reducing vibrations in Ambulance	ANVESHAN STUDENT RESEARCH CONVENTION	ASSOCIATION OF INDIAN UNIVERSITIES	21/01/2019	West Zone
An innovative method for reducing vibrations in Ambulance	AVISHKAR STATE LEVEL	INTER UNIVERSITY, GADACHIROLI	15/01/2019	State
An innovative method for reducing vibrations in Ambulance	TECHNOPHILLIA	MIT, ALANDI	29/03/2019	National
An innovative method for reducing vibrations in Ambulance	ITC 2019	WIT SOLAPUR	18/02/2019	National
An innovative method for reducing vibrations in Ambulance	KSHITIJ 2K19	SVERI, PANDHAR PUR	07/03/2019	State
An innovative method for reducing vibrations in Ambulance	KARMTECH2019	KEC, SHELVE	23/02/2019	National
An innovative method for reducing vibrations in Ambulance	SYNCHRON 2K19	SMSMPITR, AKLUJ	09/03/2019	National
An innovative	WITCHAR	WIT SOLAPUR	24/03/2019	National

method for reducing vibrations in Ambulance				
An innovative method for reducing vibrations in Ambulance	AVISHKAR	SOLAPUR UNIVERSITY, SOLAPUR	24/12/2018	University
An innovative method for reducing vibrations in Ambulance	NCIER 2019	DY PATIL, PUNE	09/02/2019	National
An innovative method for reducing vibrations in Ambulance	MAHARASHTRA STARTUP YATRA, NAGPUR	GOVERNMENT OF INDIA	03/11/2018	State
An innovative method for reducing vibrations in Ambulance	TECH MANTHAN	JSPM, PUNE	30/01/2019	National
An innovative method for reducing vibrations in Ambulance	INNOVATIONS 2019	SIESGST, NERUL	15/03/2019	National
An innovative method for reducing vibrations in Ambulance	DISCOVERY 2K18	ADCA, SANGLI	22/09/2018	National
An innovative method for reducing vibrations in Ambulance	SPARKX	SKN SINHGAD PANDHARPUR	29/09/2018	State
An innovative method for reducing vibrations in Ambulance	NATIONAL CONFERENCE	SIT, PUNE	15/02/2019	National
Design and Development of innovative Gadget For the Safety of Girl Child	ORCHITECH 2K19	ORCHID SOLAPUR	08/03/2019	National
Design and Development of innovative Gadget For the	SYNCHRON 2K19	SHANKARRAO MOHITE PATIL AKLUJ	09/03/2019	National

Safety of Girl Child				
Design and Development of innovative Gadget For the Safety of Girl Child	WISOTECH 2K19	VVP SOLAPUR	09/03/2019	National
Design and Development of innovative Gadget For the Safety of Girl Child	KARMATECH2K19	KARMAYOGI PANDHARPUR	23/02/2019	National
Design and Development of innovative Gadget For the Safety of Girl Child	AG TECH FEST2K19	A G PATIL SOLAPUR	07/03/2019	National
Design and Development of innovative Gadget For the Safety of Girl Child	SYNCHRON 2K19	SHANKARRAO MOHITE PATIL AKLUJ	09/03/2019	National
Design and Development of innovative Gadget For the Safety of Girl Child	KARMATECH2K19	KARMAYOGI PANDHARPUR	23/02/2018	National
An innovative method for reducing vibrations in Ambulance	WITCHAR 2K18	WIT SOLAPUR	24/03/2019	National
<a href="#">View File</a>				

### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	1	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded

NA	Nil
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3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	6	5.81
International	Civil Engineering	2	5.80
International	Electrical Engineering	4	0
International	Electronics Telecommunication Engineering	6	3.92
International	Computer Science Engineering	2	5.15
National	Computer Science Engineering	1	3.6
International	General Science Engineering	5	0.77
<a href="#">View File</a>			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Engineering	6
Electrical Engineering	2
Computer Science Engineering	1
General Science Engineering	7
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Improvement in design of gearbox housing (Code No: MFO225DR) through static analysis	Prof. A.K. LAVNIS	Research, Ideas and Innovations in Technology (IF4.135)	2019	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Improvement in design of gearbox housing	Prof. A.K. LAVNIS	CIKITUSI JOURNAL FOR MULTIDISCIPLINARY RESEARCH	2019	0	N.B.N. Navale Sinhgad College of Engineering	Nil

(Code No: MFO225DR) through static analysis		(IF6.1)			g, Solapur	
Stress Analysis of Induction Motor Shaft	Prof. K.S. Mangrulkar	Journal of Frontier Interdisciplinary Research and Technology Development	2018	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Design and Analysis of Gudgeon Pin to Minimize Stress Concentration: A Review	Prof. K.S. Mangrulkar	International Journal for Research in Applied Science Engineering Technology (IJRASET) (IF7.177)	2018	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Finite Element Analysis of Automobile Roof Header Manufactured by Stamping Process	Prof. M.D. Shah	International Journal for Research in Engineering Application Management (IJREAM) (IF5.87)	2018	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Design and Fabrication of Wearable Chair	Prof. M.D. Shah	Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org (IF5.8)	2019	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Study of Soil Quality from Aprupa watershed basin, Sangola Taluka,	Dr. K.C. Mujawar	IOSR Journal of Engineering	2018	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil

Solapur District, Maharashtra, India.						
GEOMORPHOLOGICAL AND LAND USE / LAND COVER STUDIES OF APRUPA WATERSHED BASIN: TALUKA SAN GOLA, DISTRICT SOLAPUR, MAHARASHTRA "	Dr.K.C. Mujawar	Journal of Engineering Technologies and Innovative Research	2018	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
GEOMORPHOLOGICAL AND LAND USE / LAND COVER STUDIES OF APRUPA WATERSHED BASIN: TALUKA SAN GOLA, DISTRICT SOLAPUR, MAHARASHTRA "	Prof.R.R. Badeghar	Journal of Engineering Technologies and Innovative Research	2019	0	N.B.N. Navale Sinhgad College of Engineering, Solapur	Nil
Design and Implementation of Internet of Things Based Multi-sensor Device	Prof Ravikant Khamitkar	Computing, Communication and Signal Processing	2018	0	N.B.N. Sinhgad College of Engineering, Solapur	Nil
A nonlocal Cauchy Problem for Nonlinear Fractional Integrodifferential Equations with Positive Constant C	Dr. V.V.KHARAT	Journal of Mathematical Modeling, ISSN (Print): 2345394X (Online): 23829869	2019	0	N B NAVALE SINHGAD COLLEGE OF ENGINEERING ,SOLAPUR	Nil



oefficient ,7(1)						
On Nonlinear Fractional Integrodif ferential equations with positive constant C oefficient ,16:41	Dr. V.V.KHARAT	Mediterr anean Journal of Matematics (Springer) , ISSN (Print): 16605446 (Online): 16605454	2019	0	N B NAVALE SINHGAD COLLEGE OF ENGINEERIN G ,SOLAPUR	Nil
On existence and uniqueness of fractional integrodif ferential equations with an integral fractional boundary condition, 6(3),48549 1	Dr. V.V.KHARAT	Malaya Journal of Matematik, ISSN (Print): 23193786 (Online): 23215666	2018	2	N B NAVALE SINHGAD COLLEGE OF ENGINEERIN G ,SOLAPUR	Nil
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Design and Implem entation of Internet of Things Based Mult isensor Device	Prof Ravikant Khamitkar	Computing, Communicat ion and Signal Processing	2018	Nil	Nil	N.B.N. Sinhgad College of Engineerin g, Solapur
Fast Image Retrieval Using Content Based Approach	Mrs. Swati S. Joshi	IJICS	2018	Nil	8	N.B.N. Sinhgad College of Engineerin g, Solapur
Empirical Anaysis of	Mrs. Swati S. Joshi	IJIRSET	2019	Nil	Nil	N.B.N. Sinhgad College of

Video Streams Driven Based Human Activity System using Foraging Strategy						Engineering, Solapur
Experimental Study on (KASE) for Group Data Sharing Via Cloud Storage By File Verification	Mrs. Swati S. Joshi	IJSART	2018	Nil	Nil	N.B.N. Sinhgad College of Engineering, Solapur
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	3	44	16	18
Presented papers	11	16	Nil	Nil
Resource persons	Nil	5	3	Nil
<a href="#">View File</a>				

### 3.4 – Extension Activities

#### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Clanging Camp At Sidhheswar temple	NBNSCOE, Solapur YIN Sakal Network	2	60
Blood Donation Camp	NBNSCOE, Solapur, Government Blood Bank and Ashwini Bank.	15	100
HB Checking Camp for Girls	Ashwini Blood Bank	15	225
Blood Donation Awareness Rally	Hegadewar Blood Bank, Solapur	2	50
Chuppi todo walkathon	Cactus Foundation, Solapur	4	60
Blood Donation Camp	NBNSCOE, Solapur Akshay Blood Bank	15	150

NSS Special Camp	NBNSCOE, Solapur Solapur University Solapur	6	36
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Institutions Innovation Council	3 star	MHRDs Innovation Cell (MIC)	16
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat Abhiyan	NBNSCOE, Solapur YIN Sakal Network	Clanging Camp At Sidhheswar temple	2	60
Chuppi todo walkathon(to prevent child sexual abuse)	Cactus Foundation, Solapur	Chuppi todo walkathon	4	60
Swachh Bharat Abhiyan	NBNSCOE, Solapur Solapur University, Solapur	NSS Special Camp at Kondi Village	6	36
<a href="#">View File</a>				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
student exchange	Mr.Rohan Bhosale	self	45
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Work	Sponsorship	1) .Ameya Industries,P une 2) Laxmi Hydraulics p umps,Solapur 3)Central	02/07/2018	31/03/2019	55

		Railway, Solapur 4) Fiysun Energy Pvt.L td,Solapur 5) Leena Eng g.Works,Sola pur 6) Saral Motors, Solapur 7) Shri. Renuka Engg. Works, Solapur 8) Precision			
Ultratech	Miniproject	Ultratech cement, Solapur	02/07/2018	30/03/2019	20
On Job Training	Vocational Training	Laxmi Hydralics, Solapur	24/12/2018	08/01/2019	17
On Job Training	Vocational Training	33/11 KV Sub Station Solapur	20/12/2018	05/01/2019	3
On Job Training	Vocational Training	33/11 KV Distribution Sub Station Civil Solapur	24/12/2018	08/01/2019	1
On Job Training	Vocational Training	Aftech Ltd. Solapur	20/12/2018	05/01/2019	5
On Job Training	Vocational Training	SKADA Tech Pune	20/12/2018	05/01/2019	13
On Job Training	Vocational Training	ORB Engineering Pvt. Ltd	20/12/2018	05/01/2019	2
On Job Training	Vocational Training	BARC Mumbai	20/12/2018	05/01/2019	2
On Job Training	Vocational Training	Payal Pump Industries Solapur	24/12/2018	08/01/2019	4
On Job Training	Vocational Training	33/11 KV Distribution Sub Station Civil Mohol	20/12/2018	05/01/2019	2
On Job Training	Vocational Training	Central Railway Office Solapur	20/12/2018	05/01/2019	3
On Job Training	Vocational Training	Lightix Technology Pune	20/12/2018	05/01/2019	1
On Job	Vocational	Mahindra	24/12/2018	08/01/2019	1

Training	Training	Vehicle Mfg Ltd.			
On Job Training	Vocational	ORB Engineering Pvt Ltd	20/12/2018	05/01/2019	2
On Job Training	Vocational	Saksham Medicare	16/06/2018	30/06/2018	15
On Job Training	Vocational	Emerson Climate Technologist Pvt Ltd.	20/12/2018	05/01/2019	1
On Job Training	Vocational	Techno and Electrical Engg Power Grid Solapur	20/12/2018	05/01/2019	1
On Job Training	Vocational	JaiHind Automation Pvt Ltd	24/12/2018	08/01/2019	1
On Job Training	Vocational	33/11 KV Substation Bale	20/12/2018	05/01/2019	4
On Job Training	Vocational	Tata Hydro Power Co. Ltd Roha	20/12/2018	05/01/2019	1
Internship	Industrial Training	Divisional Railway Mgt Office Solapur	24/12/2018	08/01/2019	55
Internship	Industrial Training	BSNL Solapur	20/12/2018	05/01/2019	30
Internship	Industrial Training	AFTEK Ltd, Solapur	20/12/2018	05/01/2019	14
Project Work	Project Work	IITM, Pune	02/07/2018	31/03/2019	12
Project Work	Project Work	Saksham Medicare equipments Services, Solapur	02/07/2018	31/03/2019	3
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Yamazaki Mazak India Pvt Ltd. Pune	16/07/2018	Joint guidance of student projects / Thesis	20
Yashavantrao Chavan Institute of	23/08/2018	Research	2

Science , Satara

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1	1.46

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Existing
Class rooms	Existing
Others	Existing
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### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Masters Soft ERP Solution Pvt. Ltd. Libman Software ( Library Management System)	Partially	6.8	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	10556	4652500	147	30654	10703	4683154
Reference Books	4244	1875848	Nill	Nill	4244	1875848
e-Books	575	Nill	Nill	Nill	575	Nill
Journals	68	124945	30	44593	98	169538
e- Journals	2	891645	1	13570	3	905215
Digital Database	2	891645	1	13570	3	905215
CD & Video	642	Nill	62	Nill	704	Nill
Library Automation	2	65000	Nill	Nill	2	65000
Others(s pecify)	93	Nill	Nill	Nill	93	Nill

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. I.I.Kazi	Java Programming	Moodle	02/07/2018
Mr. Harish T. Gurme	Fundamental of JAVA Programming	Moodle	02/07/2018
Mr. Harish T. Gurme	Fundamental of JAVA Programming	Moodle	02/07/2018

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#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	535	322	0	48	45	16	62	50	42
Added	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>535</b>	<b>322</b>	<b>0</b>	<b>48</b>	<b>45</b>	<b>16</b>	<b>62</b>	<b>50</b>	<b>42</b>

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

50 MBPS/ GBPS
---------------

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Video Lectures	<a href="http://sinhgadsolapur.org/EdSite/media-center-recording/">http://sinhgadsolapur.org/EdSite/media-center-recording/</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
100000	135148	200000	859338

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Institute has defined transparent policies and procedure for maintaining and utilizing physical and support facilities. All the policies are communicated to stake holders regularly. Detailed policies, procedure for maintaining and utilizing all the physical academic and support facilities are made available on website. For better understanding two examples are mentioned below A) Laboratory facility 1. Lab InCharge regularly checks the resource available in custody and verifies its working condition. 2. Subject incharge is informed to

check for any laboratory facility required according to syllabus or any extra experiments/projects to be performed by students. 3. Requirement of equipments or its non working is given to respective Head of Departments by Labincharge. 4. Purchase committee organize meeting to finalize the requirement with consent of Principal. 5. With the approval from Campus Director, purchase committee call for online quotation 6. Comparative statement is prepared and put up in front of purchase committee. 7. Vendors are finalized and Purchase order is placed with required terms and conditions. 8. Material installation and testing is done and satisfactory report is prepared and bill is sent to Principal. 9. Upon receipt of Principal's remark by finance department, amount is disbursed to concerned vendor. B) Library facility 1. Only registered members are allowed to use the Library. 2. Registered members are issued one library borrow card library membership ID card. 3. Borrow cards/ library membership ID cards are non transferable. 4. Members should produce their ID cards at the entrance of the Library. 5. Readers should observe strict silence and switch off their Mobile phones etc. in the library premises. 6. Borrowers must satisfy themselves with the physical condition of books before borrowing. 7. Readers are not allowed to bring personal books or any printed material and other personal belongings like bags, mobile, etc. inside the library. 8. Readers should not write in, mark disfigure or damage books, furniture etc. 9. Books will be issued on presentation of the library card. Students are instructed to check the books while borrowing and they will be responsible for any type of damage or mutilation noticed at the time of return. 10. 2 Books will be issued to the students for 15 days only. In the last page slip is pasted and stamped mentioning the due date and the fine will be charged @ Rs.2 per day per book from the due date till the book is returned to library. 11. If the books are lost, then the borrower shall replace the books of the same edition or latest edition or pay double cost of the book after getting permission from the librarian. 12. Loss of borrower card should be reported to the librarian in writing. After checking the borrowing register they will issued a fresh replacement card on a payment of Rs.50/ per card. 13. Each student shall obtain 'No dues' from the library after returning all the books issued, surrendering the Borrow card, Library ID card and after paying outstanding dues, if any.

<http://sinhgadsolapur.org/EdSite/procedures-and-policies/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Krushnakamal Scholarship	3	10000
Financial Support from Other Sources			
a) National	0	Nil	0
b) International	0	Nil	0
<a href="#">View File</a>			

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill Development Program(TE)	02/07/2018	93	freelancer ( Pankaj Dharigouda)



Student Development program (BE)	02/07/2018	107	TREEZEC Solution (Pehla job)
BE Placement Induction Program and placement counselling	03/08/2018	107	CPC Dean(Prof. Pitambare, SCOE Vadgaon)
Career guidance and motivation(BE)	07/03/2019	50	Shailesh Bhoobate (CEO Teekmarkjob)
Aptitude and softskill training(BE)	28/08/2018	100	freelancer ( Pehla Job)
Pre Employability Skill Assessment Program	27/08/2018	67	Pehla Job
Induction Program	06/08/2018	50	CPC, Pune
Soft Skill and Aptitude Training	26/07/2018	68	Free Lancer
Pre Employability Skill Assessment Program	03/08/2018	54	Pariksha
Soft skill development	03/07/2018	67	Phoenix Academy
Soft skill development	02/07/2018	61	TREEZEC Solutions
Soft skill Training	19/07/2018	242	Mr. Pankaj Dharigouda (Free Lancer)
Soft skill Training	19/07/2018	330	Treezec Solution / Pehla Job
Soft Skill Training	17/07/2018	84	TREEZEC Solution PEHLA JOB
Remedial coaching	11/01/2019	195	Basic Science Engg. Dept. and Mechanical Engg. Department, NBNSCOE, Solapur
Remedial coaching	23/02/2019	74	N.B.N.S.C.O.E Solapur
Remedial coaching	25/08/2018	16	N.B.N.S.C.O.E Solapur
IoT Basics using NodeMCU	27/07/2018	41	CloudRash Pvt. Ltd., Solapur
IOT based Google Assistancs	15/03/2019	35	Akruti Technology , Pune
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the	Number of	Number of	Number of	Number of
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	scheme	benefited students for competitive examination	benefited students by career counseling activities	students who have passed in the comp. exam	students placed
2019	opportunities for Engineer in MPSC and UPSC Examination	200	Nil	Nil	Nil
2018	Gate tutor	72	Nil	Nil	1
2018	German Language and Educational Opportunities in Germany	Nil	82	Nil	9
2018	Career Opportunities in Indian Administrative Services"	300	Nil	Nil	Nil
2018	GATE Preparation	Nil	300	Nil	4
2018	preparation of Competitive examinations like UPSC and MPSC	250	Nil	Nil	Nil
2018	Study Overseas and Higher Education Opportunity	Nil	200	Nil	1
2019	Government/ Foreign University Scholarships	Nil	200	Nil	Nil
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of	Number of	Number of	Name of	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
N.B.Navle sinhgad college of Engineering	621	238	N.B.Navle sinhgad college of Engineering	189	20
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#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	3	B.E. Mechanical	Mechanical Engineering	Siegen University	Siegen University
2019	1	B.E. Mechanical	Mechanical Engineering	Hochschule Hof University of Applied Science	M.S. Operational Excellence
2019	2	B.E. Mechanical	Mechanical Engineering	Hochschule Strlsund University of Applied Sciences	M.S. Simulation and System Design
2019	1	B.E. Mechanical	Mechanical Engineering	SRH-HAMM University	M.S. Supply Chain Management
2019	1	B.E. Computer Science Engineering	Computer Science Engineering	PACE University	M.S. Information System
2019	2	B.E. Mechanical	Mechanical Engineering	Middlesex University	M.S. Supply Chain Management
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#### 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
<a href="#">View File</a>	

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
NAAC Cultural	Institute	104
Umang	Institute	314
Enthusia	Institute	362
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Gold	National	1	Nil	DSE17ME08	Mengaji Amit
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Our institute is committed to develop student leadership and organizational skills by making students to participate in initiatives taken at institute level. A transparent mechanism is adopted wherein students from all classes of society can represent through different bodies/committees depending upon their skill sets and opportunities given to them accordingly. Presence of Active Student Council: The Student Council (SC) of institute contributes and supports in the overall development of students. It acts as a mediator between the Institute administration and the students. SC has following composition:

1.General Secretary 2.Sports Secretary 3.Cultural Secretary 4.Ladies Representatives 5.NSS Secretary 6.Technical Secretary 7.All Class Representatives (CRs) The role and responsibilities of SC mainly include smooth conduction and organization of events and maintaining academic ambience. Members of SC are actively involved in planning and executing technical, social, technosocial, sports and cultural activities initiated by the institute. SC helps in promoting and implementing institute's PBL model through its members (CRs). Also, SC coordinates functioning of departmental student associations in the institute and provides necessary inputs for overall development of students. SC is actively engaged in grooming of newly admitted students and guiding students as per their needs. SC regularly arranges sessions on 'Code of Conduct' and sensitization programs. Representation of students on academic administrative bodies/committees: 1. IQAC: Student representative is the member of IQAC as per the norms 2.ICC: Students have representation in ICC as per the norms 3. AntiRagging Committee: Sufficient number of students are given representation 4. NSS: 162 student volunteers are actively engaged in NSS activities 5. YIN: A group of 21 students leads in YIN activities initiated by Sakal Media Group. This group leads and provides platform for all other students to participate in these activities in the institute. 6.Technical Committee: Institute regularly conducts technical events and festivals. All these programs are for the students and by the students. Students shoulder the entire responsibility of these events under the mentorship of faculty coordinators. 7.Magazine Committee: Annual Magazine of the Institute is being Published named as 'Sahityagad'. This committee has dedicated editorial board and various sections of magazine are headed by students. 'Sahityagad' and its committee members have been receiving awards since four years from Student Welfare Department of PAHSUS. 7.Students Association: Every department has Student Association (SA) led by a group of 1015 students. This group ensures involvement of all other students of department in organizing activities throughout the year. 8.Sports and Cultural Committee: A dedicated team of students is actively involved in organizing sports and cultural events at the institute. 9.Hostel and Mess Committee: The Committee is formed to check the quality of the food and facilities provided in the hostel for the student residing in Hostel and availing Mess facility. Students are also the member of this committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

5.4.2 – No. of enrolled Alumni:

1730

5.4.3 – Alumni contribution during the year (in Rupees) :

550000

5.4.4 – Meetings/activities organized by Alumni Association :

1) Motivational mail sent to current pass out students to get registered to NAA: A mail was sent to forth coming alumni informing them to become a lifetime member of the NBNSCOE Alumni association. 2) Guest Lecture: A guest lecture of Mr. Vignesh Rachha was organized on the topic "Scope of ENTC Engineer in IT Industry" for final year ENTC students. Prof. T A Deshpande Coordinated the activity. 3) News Letter and E connect Mailed to Alumni: A mail was sent to all the departments alumni containing the news letter of A.Y. 201819 along with Sinhgad Econnect. 4) Guest Lecture: Mr. Dattatray Bhairi delivered the guest lecture on "Scope of ENTC Engineer in Robotics and IOT Domain" for final year students of ENTC department. Prof. T A Deshpande Coordinated the activity. 5) NAA Body Meet: The first body meet of NAA for AY 201819 was conducted on 28 July. Total six members were present for the meeting. 6) Guest lecture: A guest lecture of our alumni Nagesh Pathrut was organized in CSE department for TE and BE students. The lecture was on "How to Prepare for Campus Placement and Choose Project Topics". Prof. S S Hippargi Coordinated the activity. 7) Mock interview of BE CSE students: Mr. Nagesh Pathut alumni of CSE dept. conducted the mock interview for BE CSE students. 8) Invitation to Alumni for NAAC Visit: Selected Alumni from all the departments were invited for the NAAC visit which was scheduled on 30 and 31 Aug 2018. 9) Judgment of TECHNOSINH: Alumni from various departments were invited for the judgment of various events organized under a technical event TECHNOSINH. Following alumni have done the judgment for this event. 1. Nayana Irabatti (Electrical) 2. Abhinandan Sanghve (Civil) 3. Umar Rangrez (ENTC) 4. Sachin Pawar (ENTC 10) Krishna Kamal Scholarship: For this academic year the Krishna Kamal Scholership is given to 1. Vikas Parmar and Group "A Innovative model to avoid vibrations in ambulance". 2. Shreya Madhekar and group - "An innovative gadget for safety of girl child. Both the projects were guided by Prof. A K Lavnis 11) NAA Body Meet: The second body meet for AY 201819 of NAA was organized on 24th Feb 2019. Total 6 members were present for the meeting. 12) Fifth Alumni Meet: The fifth alumni meet of NBNSCOE was organized on 24th Feb 2019. Total 72 alumni from various departments have attended the meet. Prof. P B Lagdive was the overall coordinator for the meet. 13) Guest Lecture: A guest lecture of Miss Anisa Hota was organized for SE Mechanical students on the topic "Preparation for campus placement". The lecture was organized for SE Mechanical students to motivate the students for campus placement and preparation for placement. Prof. P B Lagdive coordinated the activity. 14) Judgment of PRAYOG : Alumni from various departments were invited for the judgment of BE projects in the annual competition known as PRAYOG.

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Institute believes in participative management and hence the powers are

decentralized. Academic decentralization is done through Dean (Academics) in coordination with Dean (PG) with the support of HoDs, teachers of various departments. Administrative decentralization is achieved through Dean (Administration) in coordination with registrar and other support staff from office. Student affairs are dealt through Dean (Students welfare) in association with HODs, students council and teacher coordinators. Institute provides guidance and counseling in view of higher studies and career counseling (HSCC) through Dean (HSCC) in association with HoDs and teacher coordinators. Regular activities are carried over through HoDs as per the guidelines of Principal. Registrar takes care of all the matter related with administrative office. However all the activities need prior approval of the Principal and the management, if necessary. This decentralization reduces wastage of time in decision making addressing students and staff issues more effectively and quickly.

Case Study A) Annual Internal Project Competition "Prayog"

1. Central Technical staff and student coordinator are appointed.
2. HODs appoint departmental faculty and students coordinators.
3. A joint meeting is held for fixing committees and their responsibilities
4. Various committees are formed like campaigning, hospitality and inauguration, transportation, registration, project exhibition etc. under the central coordinator.
5. Each committee is usually headed by a faculty member and supported by one or two non teaching members and several student volunteers.
6. These committee members are counseled to carry out the necessary activities of the concerned committee.

B) Annual Gathering "Umang"

1. Central Cultural staff and student coordinator are appointed.
2. Departmental staff coordinator and members of student association will act as members of cultural committee.
3. A joint meeting is held for to define rules and regulations for participation of students from all departments
4. Committees are formed for Stage decoration, certificate and prize distribution, campaigning, discipline, anchoring, event management, finance (sound, rangoli, seating arrangement) etc.
5. One staff member and one student coordinator is assigned for each event who takes audition and finalize the participant
6. Each committee has faculty member and supported by one or two non teaching members and several student volunteers.
7. These committee members are counseled to carry out the necessary activities of the concerned committee. The Principal conducts the meeting of all these members prior to event and issue the guidelines regarding the smooth conduction of the program. On successful completion of program the Institute appreciates concerned student and staff coordinators. In case of highly commendable efforts put in by a staff actively involved in execution he/she is also felicitated. Review meeting with student and staff coordinators is conducted to know any difficulties, problems they faced in organizing the event and their suggestions for improvements in the future implementation. These kind of events give opportunity to work in a team. They learn to facereal life challenges andto work in team with coordination in stipulated time.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Teachers are motivated to attend workshop / certified courses under NPTEL for the exposure on current technologies. Feedback from employers, alumni, teachers and parents are also taken for any changes in syllabus. Teachers are sent for syllabus setting

workshop to enrich the curriculum in accordance with the current technologies. Teachers are also motivated to create their own Value Added Program / Courses which is generally conducted for one week at the time of vacation. Value Added Program must add more knowledge/applications to the subjects which are not included in syllabus by University.

Teaching and Learning

According to the Vision and Mission statements institute believes on experiential and participative learning by incorporating Project Based Model. Teachers practice PBL model for their subjects. Teachers are also using ICT facility for more understanding of subjects. Teachers use Moodle platform for conducting tests, evaluation and providing study material to students. Some faculty members have also designed courses on Moodle platform for students. Students are given with projects and added experiments for gaining more experiential and participative learning. Due to these practices improvement in academic as well as placement results is observed.

Examination and Evaluation

Apart from regular In Semester Examination (ISE) students are also tested and evaluated providing online tests through Moodle or Google forms. A committee of senior teachers in department check for the correctness and effectiveness of questions framed in tests. Teachers have used different level of questions according to Bloom's Taxonomy to check for the achievement of Course / program outcomes. Evaluation is done in time and solutions to the questions / problems are discussed in class. Students are also provided with added advantage if they have done NPTEL or certified courses in their Internal Continuous Assessment marks.

Research and Development

To increase the interest of teachers and students towards research institute has decided to provide financial support to patent/copy right for innovation projects. Institute also provide fund for paper presentation in reputed journals. Centre for Research and Technology Development has received funds from DST under the category of women scientist. Final year students are advised to present papers in

reputed journals/conferences. Institute have also taken efforts to motivate students to participate in 'Avishkar' a project competition conducted by PAH Solapur University Solapur. Laboratories / workshops are made available after college hours for students who want to work on their projects.

Library, ICT and Physical Infrastructure / Instrumentation

A book bank scheme for topper students have been implemented apart from regular books they issue from library in which they get one book of each subject for the whole semester. Moodle / FTP server is provided by teachers and students regularly. Students are provided with 1GB/day data download through secured firewall. Students are provided with old projects/components to further improvement in previous years projects. Students are also provided with a separate room for recreation named as Student Activity Center (SAC) which is totally maintained by Student Council.

Human Resource Management

Institute have are very transparent system for recruitment and further growth of Human resource. An online self appraisal system is designed where in teaching and non teaching staff can fill details for academic year. Marks are assigned by the system for the answer of each question and are known to teaching or non teaching staff before submitting the form. Workshops are arranged regularly for teaching and non teaching staff on different topics. Financial support is also provided to publish papers in reputed journals.

Industry Interaction / Collaboration

MoU with MITTBI (Technology Business Incubator) pune is done for conducting workshop under DST for Entrepreneurship programs. Workshop was conducted from 16th January 2019 to 1st March 2019 where in 31 students got opportunity to interact around 21 resource person from industry and institute. A project got Rs. 1 lakh from Precision Crankshaft, Solapur to built a vehicle. Under Induction program for First Year Engineering students were made to visit nearby industries to know application of different engineering branches. Departments are advised to increase MoUs with industries for industrial training.



Admission of Students	<p>To improve admissions of students in our Institute various strategies have been implemented. Staff members have visited many Junior science colleges to aware students about CET/JEE exams and future of Engineering in industries. Students were called to institute for laboratory visits. Workshops for diploma engineering students are conducted to bridge the gap when they take admissions directly to Second year of engineering. Also, awareness of different scholarship schemes have been made to students as most of the students in and around Solapur are from weak socioeconomic background. Installments for paying fees is also provided by institute for economically weak students.</p>
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6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	<p>1. ERP for Office Automation: a. For office automation ERP software is available where data base of students such as name, branch, address, date of birth, date of admission category etc are stored from first year to last year. b. For the purchase of material, payment of bill, vendor, expiry date etc, maintenance of records in Central Store, ERP software is used. Masters Software</p>
Administration	<p>5. Centralized Online appraisal form is made available on cloud where teaching and non teaching staff can fill their appraisal forms annually. It has various field and markings by which academic performance indicator (API) is calculated and communicated to staff members. 6. Online feedback forms are made available through server where student can give online feedback of teachers. A report is generated which is made known to teachers. cloud.sinhgad.edu/appraisals</p>
Finance and Accounts	<p>2. Talley ERP9: Talley is used for financial management such as purchase, vouchers, student fee details, monthly expenses. This software is also used to categorize the financial details according to different fields. Tally.ERP 9,</p>
Examination	<p>Online exam form provided by PAH solapur university solapur . MKCL.</p>

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Asst Prof Shinde H V	SAE AJA VIRTUAL ROUND EVENT	CHITKARA UNIVERSITY CHANDIGARH	2765
2018	Asst PROF BIRADAR V S DR V V KHARAT	WORKSHOP	TKIET WARNANAGAR KOLHAPUR	2500
2018	Asst PROF LAMKANE S H	UNNAT BHARAT ABHIYAN WORKSHOP	IIT BOMBAY	995
2018	ASST. PROF. BHOSALE KIRTI	1DAY NATIONAL WORKSHOP ON PRECAST PREFABRICATED STRUCTURES A COST EFFECTIVE RAPID TECHNOLOGY	AT CHENNAI	1500
2018	MR GHOGHALE GANESH MR SUNIL FULE	ONE DAY WORKSHOP ON KOHA LIBRARY AUTOMATION .	KOHA LIBRARY	2992
2018	Asst. PROF S H LAMKANE Asst. PROF A K SHAIKH	ATTENDING NATIONAL TEACHERS CONGRESS AT MIT PUNE	AT MIT PUNE	4192
2018	DR HRUSHIKESH B KULKARNI	INTERNATIONAL CONFERENCE AT SRIT , ANANTHAPURAM ( A P )	ANANTHAPURAM ( A P )	3000
2018	MR NALE ASST. PROF. GURME	MODLE WORKSHOP	IIT BOMBAY	2230
2019	DR S D NAWALE, Asst. PROF. A K SHAIKH Asst.PROF. LAMKANE S H	NATIONAL CONFERENCE AT SINDHI COLLEGE BENGALURU	SINDHI COLLEGE BENGALURU	4900

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional	Title of the administrative	From date	To Date	Number of participants	Number of participants
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	development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)
2018	One Day Workshop on KOHA and Library Automation	One Day Workshop on KOHA and Library Automation	12/10/2018	12/10/2018	5	5
2019	One day Workshop on Moodle Learning Management System	NA	15/03/2019	15/03/2019	29	Nil
2019	NBA Accreditation	NA	22/04/2019	26/04/2019	25	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
NBA Accreditation	20	22/04/2019	26/04/2019	05
Mathematical Techniques in Solving Engineering Problems	5	29/04/2019	03/05/2019	05
Introduction to Robotics	1	24/05/2019	25/05/2019	02
Outcome based education and accreditation (STTP)	1	24/09/2019	27/09/2019	04
Data science workshop (STTP)	1	13/05/2019	17/05/2019	05
FDP on Data Science	1	24/06/2019	29/06/2019	06
Rubrics Data Science (FDP)	1	28/06/2019	28/06/2019	01
Short Term Course (Mathematical Techniques in Solving Engineering Problems)	1	29/04/2019	03/05/2019	05

FDP ( Data Science using Python )	1	13/05/2019	18/05/2019	06
NPTEL FDP (IIOT 4.0)	2	23/01/2019	24/04/2019	12
NPTEL FDP on Introduction to IoT	1	25/07/2018	23/04/2019	12
NPTEL FDP on Switching circuit and logic design	1	25/07/2018	24/10/2018	12
STTP Outcome based education and accreditation	2	24/09/2018	28/09/2018	05
FDP Revised NAAC methodology for Principal/IQAC coordinators	1	22/01/2019	24/01/2019	03
Moodle Learning Management System	3	15/03/2019	15/03/2019	01
Outcome Based Education Accreditation	5	24/09/2018	28/09/2018	05
Optimization Techniques with Engineering Application	15	10/12/2018	14/12/2018	05
Workshop on challenges opportunities in Processing C characterization of composite Material	1	14/12/2018	15/12/2018	02
Outcome Based Education	2	24/12/2018	28/12/2018	05
Workshop on revised NAAC Methodology for the principals/IQAC Cooordinators of Affiliated Colleges	1	22/01/2019	24/01/2019	03
5S( Workplace Origination Methodology )	1	27/01/2019	27/01/2019	01

Total Quality Management Six Sigma	2	08/03/2019	09/03/2019	02
FDP (JOY OF COMPUTING WITH PYTHON)	1	23/01/2019	24/04/2019	12
FDP ( Digital Image processing)	2	25/07/2018	24/10/2018	12
FDP ( Analog Communication)	1	23/01/2019	27/03/2019	08
One Day Workshop on Angular 6 and Google Firebase	15	07/12/2018	07/12/2018	01
One Day Workshop on Moodle learning Management System	10	15/03/2019	15/03/2019	01
Student centered Teaching Learning Practices	15	26/11/2018	27/11/2018	02
One week STTP on Outcome Based Education And Accreditation	4	24/09/2018	28/09/2018	05
One Day Workshop on One Note Class NotBook	2	24/12/2018	24/12/2018	01
Numerical Methods In Civil Engineering (Annual Refresher)	2	03/09/2019	31/12/2019	8
Mathematical Methods for boundary value Problems	2	24/07/2019	28/08/2019	4
Introduction to abstract and linear algebra	1	21/08/2019	30/10/2019	8
Mathematical Techniques in Solving Engineering Problems	5	29/04/2019	03/05/2019	05

NBA Accreditation	5	22/04/2019	26/04/2019	05
Certified Microsoft Innovative Educator	10	24/12/2018	24/12/2018	01
Water Resources Management	2	25/11/2019	29/11/2019	05
Optimization techniques with Engineering Applications	1	10/12/2018	14/12/2018	05
Imparting Outcome based education in professional Education	2	04/11/2019	15/11/2019	10
Water Pollution and Health	2	21/10/2019	25/10/2019	05
Laboratory Safety Management	2	23/09/2019	27/09/2019	05
Outcome Based Education and Accreditation	4	24/09/2018	28/09/2018	05
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
104	104	126	126

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1) Staff Welfare Fund 2) Financial Support to attend Conferences/ Workshops etc. 3) Provision of Study Leave	1) Staff Welfare Fund 2) Financial Support to attend Conferences/ Workshops etc. 3) Provision of Study Leave	1) Earn Learn Scheme 2) Training from professional agencies 3) Cocurricular and Extra Curricular activities 4) Teacher Guardian scheme for personal development

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The institute conducts External audits 06 monthly basis. The Nitin Kudale and Co. (Authorised CA) is appointed to carry out the external audit. All the mandatory Government charges viz. EPF, Income Tax etc are paid on a regular basis by the institute. The accounts are maintained as per bookkeeping laws and the Audit Report duly authorized by External Auditor is being submitted to Charity Commissioner as well as Fee Regulating Authority per year. Not only the

External Audit but the institute has its own Internal Auditor team dedicated to the conduction of Internal Audits bi yearly. The Head Office has a strategy to conduct the Internal Audit to monitor the cash flows as per allotted budget, to ensure the expenses are made as per policy, to check the implementation of Leave norms, Service Books of individual Staff members are checked by the committee. The internal audit team ensures the timely implementation of institutional policies

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Testing Consultancy Civil Dept, Suryamitra (Mitcon), INNOVATIVIEW INDIA PVT LTD, SET EXAM 2019 (ADMINISTRATIVE CHARGS) PAHSUS, SAN PRINTS PRIVATE LTD (TCS), SURYA MULTIPRODUCTS IMOPORS AND EXPORTS Project Funding to Student, TATA TECHNOLOGY PVT LTD,	3355303.9	Skill Development Program. testing consultancy
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6.4.3 – Total corpus fund generated

12900000
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	LIC( PAHSUS) ,NIRF, ARIIA	Yes	IQAC
Administrative	Yes	LIC( PAHSUS) ,NIRF, ARIIA	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parents Meet: Parent meet is organized in each semester to include following agenda: 1. Various academic and non academic activities conducted by institute for students. 2. To provide information about placement of students in/off campus interviews 3. Any Problem faced by students or parents. 4. Suggestions and feedback from parents for the overall development of the organization. 5. Parents meet Teacher Guardian to know about the progress of the student. My Mother at my College: Most of the time during parent meet only father visit the institute so an initiative by institute is taken to call students' mother at college on Women's day. On this day mothers are felicitated for taking care of their ward, also visit to departments and campus is arranged. A good bonding between mothers, students and teacher is created after this activity and mothers are also participating in parents meets. Felicitation of Parents of Placed and Ranker students Institute has adopted to felicitate the parents of placed in or off campus and rankers which make them proud for their children. If any parent for certain circumstances cannot attend the function then Teacher

Guardian visit the home personally and felicitate parents. This has increased a good rapport between teacher and parents which helps results in overall development of students.

6.5.3 – Development programmes for support staff (at least three)

1. One Day Workshop on KOHA and Library Automation 2. Two days workshop on computer literacy. 3. Two days workshop on Laboratory Safety Management.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Created Infrastructure environment for conducting online FDP/STTP by IITs NITTR 2. Organized Entrepreneurship development program for students 3. Created awareness for higher studies in abroad among students 10 students got admission for M.S in foreign universities(A.Y. 201920 ) 4. Applied and received copyright by institute and students for an innovative project.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	One Day Workshop on KOHA and Library Automation	12/10/2018	12/10/2018	12/12/2018	10
2019	One day Workshop on Moodle Learning Management System	15/03/2019	15/03/2019	15/03/2019	29
2019	One Day Workshop on Scilab	04/05/2019	04/05/2019	04/05/2019	16
2018	Optimization techniques with Engineering Applications	10/12/2018	10/12/2018	14/12/2018	12
2019	Mathematical Techniques in Solving Engineering Problems	29/04/2019	29/04/2019	03/05/2019	14
2019	NBA Accreditation	22/04/2019	22/04/2019	26/04/2019	25



**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
My mother in my college	08/03/2019	08/03/2019	230	25
Women's Day celebration	08/03/2019	08/03/2019	264	36

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
39.65

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	Nil
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	1
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	23/09/2018	01	Swachh Bharat Abhiyan	Cleanliness Sidheswar temple	62
2019	1	1	24/02/2019	01	Chuppi todo walkathon(to prevent child sexual	To prevent child sexual abuse	64

					abuse)		
2019	1	1	24/01/2019	07	Swachh Bharat Abhiyan	Cleanliness at PAH solapur university solapur	42
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct for teachers	02/07/2018	Code of conduct for teaching staff member is designed and circulated among them. Principal and HODs take proper follow up regarding the same.
Code of conduct for students	02/07/2018	The self learning subject of 'Humanity and Social Sciences' (HSS) is the common course for all the branches of Engineering at fifth semester as per SUS curriculum which has five electives. Understanding the need of inculcating human values and professional ethics among engineering graduates, they are encouraged to opt for 'Professional Ethics Human Values'.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Program	07/08/2019	22/08/2019	113
Induction Program	29/07/2018	02/08/2019	110
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

<p>1. Soft copies of notices are served. 2.Minimal printing that too on both sides of papers. 3.Software for Online feed back of teachers is developed to reduce the use of papers 4.Students' response/data collected through Google forms. 5.GATE exam practice tests are conducted on line 6 Use of plastic carry bags is banned. 7 Water coolers are situated at every building hence use of plastic water bottles is minimized. 8. Online self appraisal forms are created on google instead of paper forms. 9. There are 13084 various trees and plants attractively positioned all over the campus and tree plantation is still in progress.</p>
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7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Best Practices in Student Admission Process The Context: Now a days it is found that flow of students towards engineering is reduced due to low salary jobs and more number of engineering graduates available in market. So, it is a challenge for engineering institutes to attract the student towards engineering education. A strategy is designed by our institute to overcome the issue of increasing the interest of students to engineering education and hence to improve the admissions. Goals: 1. To attract students from nearby area for engineering education 2. Students to be financially supported by the opportunities available through various scholarship scheme for higher education 3. Preparing students to be more industry ready 4. To increase in girls admission from rural area Objectives: 1. To increase students interest towards technical aspects of subjects. 2. To make students understand the requirement of engineering graduates in near future. 3. To make students aware about various placement opportunities available during and after Engineering. 4. To aware the rural students of various Scholarship schemes available. 5. To aware the parents about security and equality given to girls students in all sectors of education and job opportunities 6. To provide best education to rural students The Practice The admission process serves as an interface to many higher education opportunities and future career options. At this junction, young minds need proper counseling at the beginning for a well defined path that will lead them to a promising future. So, it is the need of the hour to connect with the students as well as parents for proper counseling. In our Institute(N B Navale Sinhgad College of Engineering, Solapur) admission process is a core activity. A special committee named 'Admission Committee' is formed to carry out the following activities throughout the year. A. Initially we contact the Junior Science Colleges (12th std.) for conducting technical workshops and to develop critical thinking skills among these young students. B. Once we develop a good rapport with the students, we then start creating awareness about Higher Technical Education, following which seminars are conducted for both students and parents regarding: i. The future scope of Engineering ii. Opportunities as Interns for gaining hands on experience and learning management skills during their Engineering iii. Branch wise opportunities in private sector after Engineering iv. Opportunities available in public sector v. Higher Education after completing B.Tech C. As most of the students come from rural area having low socioeconomic background we provide them the details about the process of Common Entrance Test , the admission rounds and various scholarship schemes. Also, to encourage the girl students to take the admissions we talk about the achievements of our colleges' girls students. WE also provide the feedback of our students who resides in hostel so that students feel safe in campus away from their home. D. We invite the faculty members and students of schools as well as other colleges to visit our college during project exhibition, technical events or to perform high end practical experiments of Diploma Engineering as well as 12th standard. During this visit we explain: i. Our Teaching Learning process ii. Placements of our Institute iii. Training and Placement Activities iv. Entrepreneurship Development Cell v. Incubation Center vi. Startup E. Institute follows a scheme of Teacher Guardian where a faculty member is assigned as a mentor for every 15 students. The Teacher Guardian visits the student's home twice in a semester to discuss their wards achievements, result or any important issues. It makes them understand that we have personal attention on students and they spread this as a positive note among the society, which definitely helps us to fetch good quality of students for successive years. F. As per the changing needs of the technical education and the industry needs reformation in syllabus is done continuously in cycles. To acquaint the students with these changes, new languages in vocational courses such as python have been introduced. We have planned a course in teaching 'Data Science using Python' with an engineering perspective so that students develop an interest in problem solving skills. G. As our stake holders are our brand ambassadors, we continuously take feedback

from them for improving pedagogy. Obstacles faced/Problems encountered: 1. Reaching rural students during their ongoing schedule of schools. 2. More students are interested towards nonprofessional courses due to financial problems. 3. Access to students from more remote area. 4. To adjust the time table of faculty member during regular college schedule. 5. Parents want their ward especially girls to study in their village. 6. Students' attraction towards big cities like Mumbai, Pune for admission in engineering colleges.

Impact of the Practice/Evidence of Success 1. More number of schools and colleges are benefited in terms of practical approach of subjects. 2. A good liaising between the staff members of schools and colleges with our staff members is established. 3. More number of rural area students are taking admissions in our institute. 4. A good number of girls students have taken admission 5. All eligible students have taken the benefit of various scholarships. 6. Parents and our passed out students are appreciating about our efforts in their villages to educate students. 7. More number of students are appearing for CET and JEE examinations Resources required: 1. All teaching and non teaching staff members are involved directly and indirectly in this process. 2. LCD projectors are carried by our staff members to present the power presentation for college overview, placement details, scholarship schemes, achievements of admitted and passed out students. Also to show animations of their current subjects (ex. Chemistry, Physics etc.) LCD projectors are used. 3. Vehicles are provided by institute to almost all rural areas (up to 100 km) for Mock CET/JEE examinations conducted at institute's premises 4. Stationary for paper setting and printing of question papers are Bourne by institute depending upon the number of students appearing for Mock CET/JEE 5. Travelling allowance are provided to teaching and non teaching staff

members for their visit to nearby schools and colleges to create awareness among students for engineering education 6. To take care of all the resources expenditure of around Rupees of 4 to 5 lakhs is done every year. 2. Project Based Learning Objectives: To identify day to day problems and find its optimal solution. To encourage students for interdisciplinary, industrial sponsored and real time projects To transform theoretical concepts into deliverable real life applications. To develop inter personality skills, team spirit, leadership qualities Context Along with the basics of engineering student must possess graduate attributes. While doing a project student acquire various skills such as team building, proper communication, leadership, discipline etc. Practice:

In addition to university syllabus following activities are conducted by institute to inculcate all graduate attributes a. Lab innovations: Students are asked to build small experiments apart from regular experiments based on their theoretical knowledge. It is implemented for second and third year students b.

Interdisciplinary projects: Students are motivated to work on real time projects where in they need to work on projects which require student from different branches. They understand the need and necessity of different branches and also gain good knowledge from other branches also. c. Product

Based projects: Students are advised to field survey and prepare a proper literature survey according to the need of product (Industrial or social). They are also motivated to get sponsorship for these projects from external agencies. d. Value Addition Programs: All department conducts VAP for students

in vacation so that they can be upgraded with latest technologies. VAP help students to work on their projects effectively. e. Project Evaluation: Students are provided different platforms to present their work which helps them to improve their presentation skills. Institute conducts project exhibition at institute level under events like Prayog, DISTA and TechnoSingh. Students are

motivated to participate in competitions held at state and national level or conducted by other institutes such as Hackathon, Avishkar etc. PBL model initiated by the institute is successful as it has reflected in 1. Improvement of students in understanding core concepts 2. Achieving skills required for the professional practice 3. Applying academic knowledge and key skills to solve

real world problems Evidence of Success: Students have got projects sponsored by IITM, Pune. Students are placed in reputed companies Good feed back from employers.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://sinhgadsolapur.org/EdSite/activity-report/>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

In line with its vision as imparting value based education with research orientation, the institute has established Centre for Research and Technology Developments (CRTD) With a view to provide a platform for students and faculties of our institute along with intending outsiders of proven capabilities to get associated and interact with scientists/researchers/professionals of eminence CRTD has triggered process of establishment of specialized research laboratories. Institution provides financial assistance to faculties for attending National Conferences, STTPs, FDPs related to current research topics to the extent of 50 of registration fees. A 30 Lakhs fund is sanctioned by DST under Women Scientist Scheme. Amount of 13.43 lakhs have been received by institute and equipment are procured by CRTD. Students are motivated to work on technosocial projects which are more useful for society. A project was designed by Mechanical department students named as To reduce the vibrations of Ambulance. This project has got 35 prizes in various national level competitions. It has also got prizes under Innovative project and business ideas.

Provide the weblink of the institution

<http://sinhgadsolapur.org/EdSite/activity-report/>

### 8.Future Plans of Actions for Next Academic Year

More use of ICT mode: Teachers will be given more exposure to work on ICT mode of Teaching learning method. Teachers will be motivated to work on Genomio Moodle tutorial module where they will be able to share study material, create their own courses, conduct quizzes, take multiple choice questions etc. To increase attainment of CO's and PO's: Strategy will be decided by IQAC to improve in attainment of CO's and PO's more effectively. Questionnaires in question paper must design to check for the attainment of more CO's and PO's. To motivate teachers to attend more workshops: Teaching staff members are motivated to attend more workshops so that they can be upgraded with cutting edge technologies. Also, More number of online certification programs to be taken by teaching staff. More number of workshops and training programs to be conducted for support staff. Students will be motivated to work on real time projects with their own innovative ideas. Both students and teachers will be promoted to present papers in reputed journals or UGC care list journals. More number of training programs on personality development will be conducted for students. To increase institutes ranking provided by national agencies. Institute will work on it weaknesses to increase its ranking status. More incubations and startups to be initiated by institute so that patents and copy right of institute is increased. Teaching faculty members will be motivated to receive more awards and recognition at national/international level