



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		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.		8380025651
Registered Email		principal.nbnscoe@gmail.com
Alternate Email		registrar.nbnscoe@sinhgad.edu
Address		Opposite to Punyashlok Ahilyadevi Holkar Solapur University, Solapur-Pune National Highway, Kegaon, Solapur
City/Town		SOLAPUR
State/UT		Maharashtra

Pincode	413255																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Prof. Azharuddin K. Shaikh																		
Phone no/Alternate Phone no.	02172500611																		
Mobile no.	8888499450																		
Registered Email	principal.nbnscoe@gmail.com																		
Alternate Email	iqac.nbnscoe@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	http://sinhgadsolapur.org/EdSite/wp-content/uploads/2022/03/AQAR-2018-19.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	http://sinhgadsolapur.org/EdSite/academic-calender/																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.12</td> <td>2018</td> <td>26-Sep-2018</td> <td>25-Sep-2023</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.12	2018	26-Sep-2018	25-Sep-2023
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.12	2018	26-Sep-2018	25-Sep-2023														
6. Date of Establishment of IQAC	01-Oct-2018																		
7. Internal Quality Assurance System																			
<table border="1"> <tr> <td>Quality initiatives by IQAC during the year for promoting quality culture</td> </tr> </table>		Quality initiatives by IQAC during the year for promoting quality culture																	
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Student Solar Ambassador Workshop	02-Oct-2019 1	112
Workshop on Innovation, Startup and Incubation	10-Feb-2020 1	70
RTO Exam Guidance	26-Aug-2019 1	102
Seminar on Higher Study Assistance for Education in UK	25-Jul-2019 1	300
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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
Dr. Jyoti Digamber Nadargi	Women Scientist SchemeA Funding by (DST)	Department of Science & Techology New Delhi	2019 365	843000
Dr. Jyoti Digamber Nadargi	Women Scientist Scheme-A Funding by (DST)	Department of Science & Techology New Delhi	2020 365	500000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

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

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

- In house placement training (Aptitude, Soft Skills and Company Specific Training)
- Online workshop for school and polytechnic teachers. Topic: Conducting effective online classes through free software.
- Motivated all Teaching and non teaching staff members to attend FDPs and workshops.
- One week Induction program for First Year Engineering Students.
- Increased online content generation by faculty members (Usage of free Gnomio software).

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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
Motivation to faculty members to attend more number of workshops on recent trends	Count of workshops and courses attended by faculty members is more than 140
To conduct more number of lectures and reach students at rural area	Guest lectures on "Awareness on Fuel saving" in association with BPCL were conducted and around 500 students got benefited Guest Lectures on Road Safety in association with District RTO Solapur were conducted and around 1000 students got benefited
To increase number of publications in quality and peer reviewed journals	Increase in number of participation in conferences and publications in reputed journals
To conduct more number of lectures and reach students at rural area	Guest lectures on "Awareness on Fuel saving" in association with BPCL were conducted and around 500 students got benefited Guest Lectures on Road Safety in association with District RTO Solapur were conducted and around 1000 students got benefited
To increase number of publications in quality and peer reviewed journals	Increase in number of publications in National and international conferences and journals
To increase number of recognition by faculty members at university, national and international level.	2 Faculty members got Recognition as PhD guide 2 faculty members got recognition for scoring A grade by IIT Bombay 1 faculty member is recognized as reviewer for MathSciNet of American Mathematical Society (AMS). 1 BOS chairman at university level
Online content generation by faculty members	good amount of online contents are generated by faculty members which helped students to access it through mobile phones, also it helped in the pandemic period.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Name of Statutory Body</th> <th style="width: 50%; text-align: center;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NAAC</td> <td style="text-align: center;">26-Dec-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	NAAC	26-Dec-2019
Name of Statutory Body	Meeting Date				
NAAC	26-Dec-2019				
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	2020				
Date of Submission	20-Jan-2020				
17. Does the Institution have Management Information System ?	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</p>				

book can be maintained. Also, printing of borrower card, printing of bar code etc. can be done 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. e. Serial Control: Records of daily newspapers, Magazines, Journals etc can be maintained. 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. 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 staffmembers. 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
TTL READY ENGG PRO.	Nil	01/08/2019	365	employability	3D modelling and fundamental of automobile

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	MECHANICAL ENGINEERING [FINAL YEAR]	01/07/2019
BE	ELECTRONICS & COMMUNICATION ENGINEERING [FINAL YEAR]	01/07/2019
BE	ELECTRICAL ENGINEERING [FINAL YEAR]	01/07/2019
BE	COMPUTER SCIENCE & ENGINEERING [FINAL YEAR]	01/07/2019
BE	CIVIL ENGINEERING [FINAL YEAR]	01/07/2019
BTech	MECHANICAL ENGINEERING [SECOND YEAR]	01/07/2019
BTech	ELECTRONICS & COMMUNICATION ENGINEERING [SECOND YEAR]	01/07/2019
BTech	ELECTRICAL ENGINEERING [SECOND YEAR]	01/07/2019

BTech	COMPUTER SCIENCE & ENGINEERING [SECOND YEAR]	01/07/2019
BTech	CIVIL ENGINEERING [SECOND YEAR]	01/07/2019
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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	CIVIL ENGINEERING [SECOND YEAR]	01/07/2019
BTech	COMPUTER SCIENCE & ENGINEERING [SECOND YEAR]	01/07/2019
BTech	ELECTRICAL ENGINEERING [SECOND YEAR]	01/07/2019
BTech	ELECTRONICS & COMMUNICATION ENGINEERING [SECOND YEAR]	01/07/2019
BTech	MECHANICAL ENGINEERING [SECOND YEAR]	01/07/2019
BE	CIVIL ENGINEERING [FINAL YEAR]	01/07/2019
BE	COMPUTER SCIENCE & ENGINEERING [FINAL YEAR]	01/07/2019
BE	ELECTRICAL ENGINEERING [FINAL YEAR]	01/07/2019
BE	ELECTRONICS & COMMUNICATION ENGINEERING [FINAL YEAR]	01/07/2019
BE	MECHANICAL ENGINEERING [FINAL YEAR]	01/07/2019

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

	Certificate	Diploma Course
Number of Students	60	115

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
TTL-DRE Program	01/07/2019	50
LATEX Workshop	30/09/2019	61
Solar Ambassador	10/02/2019	24
Understanding Innovation/ Incubation Policy of MHRD Govt. of India	06/08/2020	30
Python Programming	13/02/2020	42

Introduction to IoT using Arduino and ESP8266	22/06/2020	46
View File		

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	Industrial Training	223
BE	Industrial Training at Divisional railway Management Office , Solapur	36
BE	Industrial Training at Bharat Sanchar Nigam Ltd, Solapur	30
BE	Block Contoring	69
BE	Profile Levelling	69
BE	Route Survey	69
BE	Interenship	68
BE	Laxmi Hydraulics Pvt.Ltd	19
BE	Industrial training by Kirloskar Ferrous Industries Ltd, Solapur	9
BE	Development of web based software using PHP, HTML, CSS	3
View File		

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. 1. Students: Feedback from students are taken under different categories: A. Students feedback for teacher is taken twice in a semester in online mode. First feedback is taken in middle of semester and the second feedback is taken at the end of semester. As per the feedback received discussions with teachers are made and corrective actions or appreciations decided and implemented. 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</p>

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. 2. Teachers: Feedback is taken from our teachers at 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. 3. 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. 4. Alumni: Online feedback from Alumni is taken for improvement in all aspects of institute such as improvement in syllabus, improvement in infrastructure, improvement in alumni activities, support to current students, skills needed by students, so that they can compete better at the time of placement. 5. Parents: Offline feedback is taken from parents during Teacher Guardian Discussions and Parent Meet for improvement of 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 are discussed from time to time in HoD meetings and IQAC meetings and due consideration is given to these feedback in further planning and actions.

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	Civil Engineering	60	7	5
BTech	Computer Science & Engineering	60	58	54
BTech	Electrical Engineering	60	8	7
BTech	Electronics & Telecommunications Engineering	60	24	24
BTech	Mechanical Engineering	120	18	17
Mtech	Civil Engineering (Structural Engineering)	18	8	8

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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	Number of students enrolled	Number of fulltime teachers	Number of fulltime teachers	Number of teachers
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	in the institution (UG)	in the institution (PG)	available in the institution teaching only UG courses	available in the institution teaching only PG courses	teaching both UG and PG courses
2019	1284	22	97	3	100

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
100	100	15	23	5	13

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Students Mentoring System (Teacher Guardian Scheme): Mentoring System of the institute named as Teacher Guardian Scheme is effectively designed to achieve the desired outcomes of counselling and strengthening the student community. Most of the admission at institute come from poor socioeconomic background. Teacher guardian scheme addresses major concern of understanding the student background and their requirements at initial stages leading proper mentoring of students at different stages of graduation. 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 changing scenario and placement requirements. One TG is assigned to a group of 15-20 students who take cares of students' academic as well as personal issues. 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
1284	100	1 : 13

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
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102	95	7	5	6
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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
2019	Prof.S.A.Gurav	Assistant Professor	Tata Technologies pune
2019	Prof.S.M.Shaikh	Assistant Professor	Tata Technologies pune
2019	Prof.S.M.Shaikh	Assistant Professor	IIT Bombay
2019	Prof A K Lavnis	Assistant Professor	Best Teacher Award ,NBNSCOE,Solapur
2019	Prof S T Jagtap	Assistant Professor	Best Teacher Award ,NBNSCOE,Solapur
2020	Prof. K.S.Patil	Assistant Professor	Appriciation letter for Coordinated 15th Youth Festival of Solapur University Solapur Vice-Cancellor PAHSU Solapur
2020	Dr Imran M. Chandarki	Assistant Professor	Recognition as Ph.D Guide by Punyashlok Ahilyabai Holkar Solapur University, Solapur.
2020	Dr. Vinod V.Kharat	Assistant Professor	Recognition as Ph.D Guide by Punyashlok Ahilyabai Holkar Solapur University, Solapur.
2020	Dr. Vinod V.Kharat	Assistant Professor	Reviewer of Mathematical Reviews /MathSciNet of American Mathematical Society (AMS).
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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-	Date of declaration of results of semester-
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			end examination	end/ year- end examination
BE	CSE	Semester I	17/12/2019	28/02/2020
BE	CSE	Semester II	15/10/2020	31/10/2020
BE	ME	Semester I	17/12/2019	28/02/2020
BE	ME	Semester II	15/10/2020	31/10/2020
BE	CE	Semester I	17/12/2019	28/02/2020
BE	CE	Semester II	15/10/2020	31/10/2021
BE	ENTC	Semester I	17/12/2019	28/02/2020
BE	ENTC	Semester II	15/10/2020	31/10/2020
BE	EE	Semester I	17/12/2019	28/02/2020
BE	EE	Semester II	15/10/2020	31/10/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

An all-inclusive and transparent Continuous Internal Evaluation (CIE) system has always been a top priority at our institute. Institute believes in promoting activities addressing all graduate attributes for overall development of students. Institute updates its CIE norms as and when required as per requirements of PAHSU, Solapur and feedback given by different stakeholders from time to time. Basic CIE system at institute incorporates all guidelines given by PAHSU, Solapur and requirements of overall development of students which include - mandatory fields like attendance in theory and practical sessions, term work assessment, internal examinations assessment, internal oral examinations (mock oral examinations), etc. and additional parameters like participation of students in co-curricular, extracurricular and social activities such as project competitions, paper presentations, poster presentations, technical presentations, Value Addition Programmes, NPTEL courses, MOOCs, Hackathons, Sports, Cultural, NSS, etc. As a part of recent reforms, participation in activities of Institutions Innovation Cell and Entrepreneurship Development Cell is also added to CIE system.

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 Calendar is prepared as per academic guidelines and calendar of PAHSU, Solapur and the academic process of institute. Principal and HoDs discuss and finalize the structure of academic calendar in concern with Academic Dean. Three different internal examinations are part of academic calendar in addition to University's Theory and Practical Examinations. ICA and ISE marks evaluation are also part of academic calendar planning. Inputs given by IQAC after analyzing feedbacks from all stake holders are also considered in the academic calendar finalization. Different activities designed for students' overall development are also included in the academic calendar. Some of additional activities included in academic calendar are lab innovations, 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. Departments 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. 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/programme-educational-objectives-outcomes/>

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
EE	BE	Electrical Engineering	58	58	100
ENTC	BE	Electronics & Tele-communication	102	101	99.01
CE	BE	Civil Engineering	75	73	97.33
CSE	BE	Computer Science	67	67	100
ME	BE	MECHANICAL ENGINEERING	223	223	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
Major Projects	300	Precision Camshaft Ltd. Solpaur	1	1
Industry sponsored Projects	300	Indian Institute of Tropical Meteorology, Pune	0.06	0.06

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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
Arduino Microcontroller Based Automation	Electrical Engineering Department	26/09/2019
Innovation, Startups Incubation	Electrical Engineering Department	10/02/2020
Smart Machine Automation Industrial PCB Design	Electrical Engineering Department	29/02/2020
PAH Solapur university sponsored one day seminar on Advanced concrete technology	Civil Engg Dept	02/10/2020
PAH Solapur university sponsored one day seminar on seminar on New trends in transportation survey construction techniques	Civil Engg Dept	25/02/2020

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 Model Of Air Cooler	1.Sohel Shaikh, 2.mannan Inamdar, 3.Aaquib Dakhani, 4.SachinShinde	VVPIET, Solapur	27/06/2020	State
An Innovative Model Of Air Cooler	1.Sohel Shaikh, 2.mannan Inamdar, 3.Aaquib Dakhani, 4.SachinShinde	Solapur university	23/02/2020	State
An Innovative Model Of Air Cooler	1.Sohel Shaikh, 2.mannan Inamdar, 3.Aaquib Dakhani, 4.SachinShinde	NBNSCOE, Solapur.	12/03/2020	National
Innovative transportation model using magnet	1.Onkar Bandgar, 2.Shakeeb Khan, 3.Lakhan Vaikunthe 4.Rushikesh Korke	NBNSCOE, Solapur	12/03/2020	National
Innovative model of magnetic mixert ransportation model using	1.Shantkumar Bhore, 2.RushikeshDhage 3.Shrikant Dahihande,	VVP, Solapur	28/05/2020	National

magnet	4.PravinDakavi			
Innovative model of magnetic mixer	1.Shantkumar Bhore, 2.RushikeshDhage 3.Shrikant Dahihande, 4.PravinDakavi	SKNSCOE, Pandharpur	29/02/2020	State
Innovative model of magnetic mixer	1.Shantkumar Bhore, 2.RushikeshDhage 3.Shrikant Dahihande, 4.PravinDakavi	At Shri sant Damaji Mahavidyalaya Mangalvedha, by PAHSU, Solapur	05/01/2020	State
Swayam Project	Ms. Aditi Sharnarathi	Shardabai pawar womans Arts and Science college	29/12/2019	State
Power Quality Improments by Unified Power Quality Coditioner	Prof.Parmanand Ashok Pawar	SPDM Science College,Dhule(I QAC)	29/05/2020	International
Innovation Achievement Award	N B Navale Sinhgad College of Engineering, Solapur	ARIIA, MoE, Governmmnet of India	28/08/2020	National

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
No file uploaded.					

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
0	0

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	1	5.22
International	Electrical Engineering	1	Nill
International	Electronics	5	3.05

	Telecommunication		
International	General Science	4	0.77
View File			

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
Civil Engineering	8
General Science Engineering	7
Electrical Engineering	1
Mechanical Engineering	2
View File	

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
On Nonlinear Fractional Integro-differential equations with positive constant C coefficient, 16:41	V.V.KHARAT	Mediterranean Journal of Mathematics (Springer), ISSN (Print): 1660-5446 (Online): 1660-5454	2019	0	N B Navale Sinhgad College of Engineering, Solapur	0
A nonlocal Cauchy Problem for Nonlinear Fractional Integro-differential Equations with Positive Constant C coefficient, 7(1)	V.V.KHARAT	Journal of Mathematical Modeling, ISSN (Print): 2345-394X (Online): 2382-9869	2019	0	N B Navale Sinhgad College of Engineering, Solapur	0
On Nonlinear Mixed Fractional Integro-differential inclusion with four-	V.V.KHARAT	Indian Journal of Pure Applied Mathematics (Springer), ISSN (Print):	2019	1	N B Navale Sinhgad College of Engineering, Solapur	0

point nonlocal Riemann-Liouville integral boundary conditions, 50(4), 937-951		0019-5588 (Online): 0975-7465				
On Nonlinear Mixed Fractional Integrodifferential equations with positive constant Coefficient, 33 (17), 5623-5638	V.V.KHARAT	Journal of Filomat, ISSN: 2406-0933	2019	0	N B Navale Sinhgad College of Engineering, Solapur	0
on pade approximation series solution of MHD flow equations with heat and mass transfer due to sink	I m Chandarkari	Algebraic Structures and Applications, Springer Proceedings in Mathematics Statistics 317, https://doi.org/10.1007/978-3-030-41850-2_40 , 978-3-030-41849-6	2020	0	N B Navale Sinhgad College of Engineering, Solapur	0
Hybrid Neural Network Based Wideband Spectrum Behavior Sensing Predictor for Cognitive Radio Application	Dr.S .S. Shirgan	Sensing and Imaging Springer	2020	1	N B Navale Sinhgad College of Engineering, Solapur	1
A Survey of Artificial	Prof.M.H .Naikwadi	IEEE International Conference	2020	1	N B Navale Sinhgad	1

Neural Network based spectram Inference for occupancy prediction in cognitive Radio Networks		on Trends in Electro nics Infor matics			College of Engineerin g, Solapur	
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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 Performace Analysis of Linear Array	Dr. S D Nawale	Internat ional Research Journal of Engineerin g and Technology (IRJET)	2020	5	136	N B Navale Sinhgad College of Engineerin g, Solapur
Hybrid Neural Network Based Wideband Spectrum Behavior Sensing Predictor for Cognitive Radio Appl ication	Dr.S .S. Shirgan	Sensing and Imaging Springer	2020	0	1	N B Navale Sinhgad College of Engineerin g, Solapur
A Survey of Artificial Neural Network based spectram Inference for occupancy prediction in cognitive Radio Networks	Prof.M.H .Naikwadi	IEEE Int ernational Conference on Trends in Electro nics Infor matics	2020	2	1	N B Navale Sinhgad College of Engineerin g, Solapur

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	54	101	26	20
Presented papers	18	9	2	1
Resource persons	0	4	5	15
View File				

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
Blood Donation Camp	NSS Cell	3	57
Blood Donation Camp	Akshay Blood Bank, Solapur	25	120
Guest Lecture on "Awareness of Fuel Saving"	BPCL, Solapur	10	250
Road Safety	District RTO Dept.Solapur	10	250
Health checkup Camp	Dhanraj Pathalogy Lab, Solapur	10	200
Cleaning Camp	NSS Cell	2	30
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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	4.5 Star Rating	MoEs Innovation Cell	100
View File			

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
Blood Donation Camp	NBNSCOE, Solapur Akshay Blood Bank, Solapur	Blood Donation Camp	25	120
National Health Mission	NBNSCOE, Solapur Solapur University,	Health (HB) checkup Camp for Girls	10	250

	Solapur	Students		
Road Safety Awareness 2020	NBNSCOE, Solapur District RTO Dept.Solapur	Guest Lecture on "Road Safety"	10	250
Swachh Bharat	NBNSCOE, Solapur Solapur University, Solapur	Cleaning Camp at Wakhari, Pandharpur	2	30
National Service Scheme	NSS Cell	Blood Donation Camp	3	57
National Service Scheme	NSS Cell	Cleaning Camp	2	30
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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
Research	Kiran Todekar	IITM, Pune	300
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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
INTERNSHIP	Industrial Training	KATARE INFORMATICS, SOLAPUR	27/05/2019	27/05/2019	17
INTERNSHIP	Industrial Training	INTELLISE IT TECHNOLOGY	05/06/2020	20/06/2020	2
INTERNSHIP	Industrial Training	INFOSTACK SOFTWARE DEVELOPMENT	15/01/2020	14/02/2020	4
INTERNSHIP	Industrial Training	EQUIRE IT PARK	05/07/2020	10/07/2020	3
INTERNSHIP	Industrial Training	DREAM TECH NOLIGIES, SOLAPUR	01/06/2020	15/06/2020	5
INTERNSHIP	Industrial Training	CONTENT MANAGEMENT SYSTEM	30/06/2020	30/07/2020	2
Field Trip	Elements of Power system	220 KV Bale substation solapur	09/03/2020	09/03/2020	22

Sponsored Projects	MOU	Irshad Industries	01/07/2019	30/04/2020	25
Sponsored Projects	MOU	Precision Camshafts Pvt Ltd.	01/07/2019	30/04/2020	5
Sponsored Projects	MOU	Leena Engineering, Solapur	01/07/2019	30/04/2020	8

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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
Chanakya Logic Solutions Kolhapur	25/02/2020	Knowledge sharing to provide Industrial exposure.	58
Government Polytechnic, Solapur	19/09/2019	Resource faculties, guest lectures, LAB practical, VAP, visit	120
RED HAT LINUX-TOP IT ACADEMYlege of Engineering, Solapur	03/03/2020	Training and Internships	25
3 Idea Technologies, India and Anet Technologies, China	16/01/2020	Training on 3D Printing	150

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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
200000	552125

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	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 patially)	Version	Year of automation

Masters Soft ERP Solution Pvt. Ltd. Libman Software (Library Management System)	Partially	6.8	2010
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4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	10556	4652500	147	30654	10703	4683154
Reference Books	4244	1875848	0	0	4244	1875848
e-Books	575	0	0	0	575	0
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	0	62	0	704	0
Library Automation	2	65000	0	0	2	65000
Others(s pecify)	93	0	0	0	93	0

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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. Harish T. Gurme	Fundamental of JAVA Programming	MOODLE	01/07/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existin g	535	322	0	48	45	16	62	50	42
Added	0	0	0	0	0	0	0	0	0
Total	535	322	0	48	45	16	62	50	42

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	http://sinhgadsolapur.org/EdSite/media-center-recording/
ONLINE CLASSROOM	http://sinhgadsolapur.org/EdSite/online-learning/

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	465656	200000	287435

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	NBNSCOE Alumni Association Vikram Award - 5000 Arjun Award -2000	3	7000
Financial Support from Other Sources			
a) National	Govt. Scholarships Freeships	1101	50626583
b)International	0	0	0

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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
DBMS and Pyhon training for InfyTQ screenning test.	Nill	Nill	Nill
Python Basic	Nill	Nill	Nill
InfyTQ Recruitment Process	Nill	Nill	Nill
Create Self Employment	Nill	Nill	Nill
Students Solar Ambassadors workshop	Nill	Nill	Nill
How Technology roles are evolving and how Diversity Inclusion is fueling the Technology.Impact and role of Technology in next decade, and how the students can contribute towards it during their	23/12/2019	Nill	Nill

career ahead.			
Communication skill and softskill Training in view of Accenture Placment Drive	01/01/2021	Nil	Nil
Communication skill and softskill Training in view of Accenture Placment Drive	05/07/2019	Nil	Nil
Soft skill raining	01/09/2019	Nil	Nil
Communication skill and softskill Training in view of Accenture Placment Drive	16/08/2020	Nil	Nil

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Higher Studies and Career Counselling Cell	300	215	5	5

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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
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
34	1259	244	14	117	28

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of	Programme	Department	Name of	Name of
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	students enrolling into higher education	graduated from	graduated from	institution joined	programme admitted to
2019	4	N B Navale Sinhgad College of Engineering, Solpaur	Civil Engineering	N B Navale Sinhgad College of Engineering, Solpaur	MTech
2019	1	N B Navale Sinhgad College of Engineering, Solpaur	Electrical Engineering	Tulshiram Gaikwad Patil College of technology Nagpur	MTech
2019	1	N B Navale Sinhgad College of Engineering, Solpaur	Electrical Engineering	Fabtech College of Engineering Research Sangola	MTech
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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	5
Civil Services	5
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Athletics	Institute	259
Shotput and Tug of War	Institute	112
Kabaddi	Institute	180
Kho-Kho	Institute	150
Football	Institute	90
Chess	Institute	105
Carrom	Institute	88
Table Tennis	Institute	65
Volleyball	Institute	210
Cricket	Institute	510
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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
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2019	Third place	National	1	Nil	College team	Girls volley ball team
2019	Gold medal	National	1	Nil	Civil	Prajakta Unhale
2019	Gold medal	National	1	Nil	Electrical	Pragati chatake
2019	Gold medal	National	1	Nil	CSE	Shilpa Dasari
2019	Silver medal	National	1	Nil	Civil	Somnath Gaikwad
2019	Participation	National	1	Nil	Mechanical	Aditya Tikate
2019	Gold medal	National	1	Nil	Mechanical	Amit Mengagi
2019	Gold medal	National	1	Nil	Mechanical	Siddharam Alagi
2019	Gold medal	National	1	Nil	Mechanical	Amit Mengagi
2019	Silver medal	National	1	Nil	ENTC	Arati Awatade

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

NBNSCOE has always strived hard for developing leadership and organizational skills in its students. It provides different platforms for students to participate and execute different managerial roles. 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. Institute has an 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 healthy work culture amongst the student leaders. 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. 8. 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. 9. Sports and Cultural Committee: A dedicated team of students is actively involved in organizing sports and cultural events at the institute. 10. 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

Yes, NBNSCOE Alumni Association (NAA) (Registration Number MH-731/2015)

5.4.2 – No. of enrolled Alumni:

1883

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

153000

5.4.4 – Meetings/activities organized by Alumni Association :

1) Invitation emails sent to current passed out batch to get registered to NBNSCOE's Alumni Association 2) Departmental newsletters of current academic year are sent to registered alumni. 3) First meeting of Alumni Association's Core body for AY 2019-2020 was conducted on 24th August 2019. Total six members were present for the meeting. 4) Alumni from various departments were invited as judges for various events organized under a intra-college technical event TECHNOSINH. 5) The second meeting of Alumni Association's Core body for AY 2019-2020 was conducted on 2nd Feb.2020. Total 6 members were present for the meeting. 6) General Alumni Meet was conducted on 29th February 2020. This was 6th General Alumni Meet of NBNSCOE. Total 56 alumni from various departments visited the campus on this occasion. Passed out students guided the current students about expectations of industry from students, the opportunities after post-graduation, current market scenarios, etc. Alumnus guided them about challenges in market to start the business and how to face these challenges. 7) NBNSCOE Alumni Association (NAA) has initiated Arjun Award (for Sport activities) and Vikram Award (for Technical activities) for the students representing our institute at university, state, national and international competitions since the academic year 2018-19. These awards are given through Alumni association fund. Students submit their applications for the Arjun and Vikram Award along with the respective certificates to the alumni association. These applications are scrutinized amp verified by the scrutiny committee. The student or groups of students who score the maximum points are awarded by the above awards. Arjun award 2020 - Amit Mengaji- BE Mech - C Div. (Handball player) Vikram award 2020 - Rushikesh Dhage, Shantkumar Bhole, Shrikant Dahihande and Pravin Dalvi - BE Mech -B Div. (Project: An innovative model of magnetic mixer)

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)

The institute has always promoted decentralization and participative management in its work culture. 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 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 guardians. Student training is taken care of by coordinators of newly formed in-house student training cell. 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 of the management, whenever necessary. This decentralization reduces wastage of time in decision making addressing students and staff issues more effectively and quickly.

Practice - I : Various Committees at Institute Level

1. In order to achieve goals of overall development of students, different curricular, co-curricular and extracurricular activities are designed and executed at the institute.
2. These activities are planned and executed through different committees appointed by Principal.
3. These committees consist of staff coordinators who further execute the work including the departmental coordinators
4. The coordinators are given complete flexibility and freedom to plan and execute their activities.
5. Regular review meetings are conducted to know the progress of these committees. This provides healthy environment for working and encourages participative management at the institute.

Practice - II : Annual Technical Competition "Dista"

1. Central coordinators are appointed by Principal. These coordinators further appoint departmental faculty coordinators and students' coordinators in consultation with HoDs.
2. Central Student coordinators are appointed after following some formal process like interviewing of interested students.
3. A joint meeting is held for fixing committees and their responsibilities.
4. Various committees are formed like campaigning, hospitality and inauguration, transportation, registration, event coordination, valedictory function, etc. under the central coordinator.
5. Each committee is usually headed by a faculty member and a student leader supported by several student volunteers and in some cases additional non-teaching staff is provided for support.
6. These committee members are counseled to carry out the necessary activities of the concerned committee.
7. Timely review meetings are conducted and activities are executed as per plan.

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
Admission of Students	Institute has developed a special Admission cell for admission process. Aspiring Students visiting institute have been given with all details of institute through this cell. Students who cannot reach us and reside in rural areas were explained about scholarship schemes through guest lectures in rural

areas. Students having poor economic background were also provided with installment schemes. Guidance and Awareness about CET/JEE was given to 12th students in rural areas. Faculty members reached to Junior colleges and students were given more information regarding future of different branches along with importance of engineering.

Industry Interaction / Collaboration

Institute has strong connection with Industry and other organization through various MoUs. Placement training, Industrial projects, Internship and sponsored projects were provided by various industries and organizations. Institute always try to increase MoUs for the benefit of Students/Faculty members. 15 days industrial training for students is compulsory where they get a chance to work in industry and understand working culture at industry. Industrial visits for students were arranged and given exposure on current technologies.

Human Resource Management

Institute always support Teaching, non teaching staff and students for innovative work. Institute provides financial support for IPR/Workshops/Publication of papers so that they get motivated to work towards excellence. A very transparent online self appraisal system is available where teacher fill the details and their scores are made known by software as well as through email. For higher studies short and long study leaves is provided by institute as per the requirement.

Library, ICT and Physical Infrastructure / Instrumentation

FTP server and Moodle server is installed at institute and it was utilized the most. Mock Placement test were conducted on Moodle server. Students were provided with book bank scheme where they can avail more number of books from library. Students were provided with free internet through wi-fi or wired network using username and password through secured firewall. Students were provided to use Workshop and laboratories even after college working hours. Student worked in incubation center to develop innovative projects even on non working days.

Research and Development

Faculty members and students have been advised to publish the research in UGC/Scopus/Peer reviewed/ reputed

journals only. Institute as a whole have published more number of papers in reputed journals. Students were told to work in social / innovative projects even for mini project students designed 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 Research and Development

Examination and Evaluation

Institute has very robust and transparent Examination and evaluation scheme. All students were made aware of ISE/ICA and over and above marks at the time of induction program. Online tests/ Oral examination and Project work evaluation were also done by faculty members through different online mode during pandemic situation. Credit transferred through NPTEL courses was done in association with university. Motivation for students to attend online courses/ workshop was given. After submission of certificates to respective Teacher Guardians over and above marks were allotted. Evaluation in time was done as per academic calendar.

Teaching and Learning

More use of ICT facility was done to make students understand the subject thoroughly. Project based learning was more inculcated among the students. Students were motivated to attend more workshops/certified courses so that they get more exposure for new subjects. Faculty members used Google classroom/Gnomio website for providing Online content to the students. More number of Quiz and MCQs were conducted through online mode. Classes were conducted in Pandemic through different platforms Microsoft team/ Zoom/Google meet/ Gotomeeting etc. Teachers quickly adopted online teaching and conducted classes effectively. Assignments were also submitted by students on Google Classroom / Gnomio website.

Curriculum Development

Feedback from all stake holders are taken for any improvement in curriculum development. Faculty members have participated in syllabus setting workshop. At minute level topics were planned by faculty members and represented it at university level to

set the curriculum as per the need of hour. Faculty members have taken Value added program at institute level to make students more employable. As per industry requirement subjects were taken by our own faculty members. Faculty members attended workshops and NPTEL / certified courses to update themselves for these subjects.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	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
Administration	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. 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.
Finance and Accounts	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,
Examination	Online exam form provided by PAH solapur university solapur . MKCL. Also, tests for Training and Placement activity are conducted using MOODLE server at the institute

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	Mrs. Palmur Sandya	National Conference	KARNATAKA UNIVERSITY DHARWAD 07 08 Nov 2019	500
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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 development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Rendezvous with Lori Beer-Global CIO, JPMorgan	Nil	11/05/2019	11/05/2019	22	Nil
2020	5G Communication	Nil	18/11/2020	22/11/2020	15	Nil
2020	Water pollution and health (ICT-12)	Nil	21/10/2019	25/10/2020	25	Nil
2020	Innovation, Startups and Incubation	Nil	02/02/2020	02/02/2020	70	Nil
2020	Scilab and Latex for Research and Publication	Nil	17/02/2020	18/02/2020	25	Nil
2019	One day Workshop on Linux	Nil	23/08/2019	23/08/2019	12	Nil
2019	Analysis and Design of Shallow Foundations (ICT10)	Nil	26/08/2019	30/08/2019	11	Nil
2020	Laboratory Safety Management (ICTSPL02)	Nil	23/09/2020	27/09/2020	49	10
2019	One day Workshop	Nil	09/09/2019	09/09/2019	11	Nil

	on R					
2020	Water Resources Management	Nil	25/11/2020	29/11/2020	12	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
Research Methodology	1	20/05/2020	25/05/2020	7
Intellectual Property Right Patent Facilitation	1	18/05/2020	20/05/2020	3
Learning Pedagogy Effective Use of Case Methodology	1	17/05/2020	21/05/2020	7
Prayog-Experiments on click-Using Virtual Labs	1	18/05/2020	20/05/2020	3
International FDP on 360 degree classroom management	1	16/05/2020	22/05/2020	7
Design Development of Electric Hybrid Electric Vehicle Technology	2	12/05/2020	16/05/2020	7
Introduction to Accreditation Mechanism NBA Approach	1	11/05/2020	15/05/2020	7
FDP on Outcome Based Education	7	11/05/2020	15/05/2020	7
FDP on Overcoming the challenges in adopting Online Technology in Teaching Learning	4	06/05/2020	11/05/2020	7

Online session To promote Innovation, IPR ,Entrepreneurship Start up among HEI	1	28/04/2020	22/05/2020	25
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
63	37	116	Nil

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 While 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 practices to have periodic internal and external financial audits. 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
1. Punyashlok Ahilyadevi Holkar Solapur University, Solapur 2. MITCON, Pune 3. MITCON, Pune	40500	1. To organize One Day Workshop on Innovation, Startups and Incubation 2. To organize One Day Workshop on Innovation, Startups and Incubation 3. SuryaMitra Skill Development Program for students

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6.4.3 – Total corpus fund generated

7694237

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	Academic Yes LIC(PAHSUS) ,NIRF, ARIIA, IIC	Yes	IQAC
Administrative	Yes	Academic Yes LIC(PAHSUS) ,NIRF, ARIIA, IIC	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. Training on ICT work of Online Examinations 2. Training on Google drive utilities 3. Online training about Online Meeting and Conferencing Platforms

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

1. Enhancement of E-Learning Content. 2. IIC activities and 4.5 star rating from MoEs Innovation Cell. 3. Planning for NISP activities.

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	Date of	Duration From	Duration To	Number of
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	initiative by IQAC	conducting IQAC			participants
2019	Student Solar Ambassador Workshop	02/10/2019	02/10/2019	02/10/2019	112
2019	RTO Exam Guidance	26/08/2019	26/08/2019	26/08/2019	102
2019	Seminar on Higher Study Assistance for Education in UK	25/07/2019	25/07/2019	25/07/2019	300
2020	One Day Workshop on "Innovation, Startup's and Incubation"	10/02/2020	10/02/2020	10/02/2020	70
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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" Womens Day	08/03/2020	08/03/2020	150	0

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
39.56

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	0
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

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
2020	1	1	04/02/2020	1	SAKSHAM (????????????????) headed by Petrol Conservation Research Association (PCRA).	Fuel Saving	100
2020	1	1	10/03/2020	1	women empowerment	Health checkup	200
2019	1	1	10/07/2019	1	Swachh Bharat Abhiyan	Cleaning	32
2019	1	1	21/07/2019	2	National Blood Transfusion Council of India.	Blood Donation	94
2020	1	1	17/01/2020	1	Road Safety Awareness	Road Safety	100

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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	01/07/2019	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	01/07/2019	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 Programme	07/08/2019	16/08/2019	112
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

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.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice No.1

1. Title: Project Based Learning 2. Context: Learners who are going to be future professionals and problem solvers, need to develop the mentality of applying the knowledge and follow approach of problem finding and solving in their graduation years itself. They must know how to mould themselves to align with professional requirements like team work, leadership, effective use of resources, sense of responsibility, problem solving and so on. These requirements are best addressed while handling projects and different problem-solving activities. In a project, students learn how to take initiative and responsibility, build their confidence, solving problems in time, work in a team, communicate ideas and manage themselves more effectively. Learning happens only when they perform tasks on their own. Enriching teaching-learning activities with Project-Based Learning (PBL) provides an intentional and effective opportunity to integrate above personality traits in a disciplined manner. 3. Objectives: To find practical applications of the concepts learnt in class. 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 4. Practice: Institute has developed its own PBL model to enrich the University Curriculum and make students learn through practical approach: a) Lab innovations: In this activity, students develop their small innovative ideas. This helps them to implement their theoretical knowledge to be converted in small projects. This also helps them to build their focus for mini and major projects. Majority of students actively carry out these projects. b) Interdisciplinary projects: Practical problems involve application of various disciplines of Engineering so institute encourages students to take interdisciplinary projects. Depending upon the requirement of project students from different disciplines form group in consultation with their guide. These groups provide working solution to be utilized in real world problems. This

also increases the student's capability to work in coordination with other department students, which helps them in their further career. c) Product based projects: To make industry ready engineers, institute encourages taking product-oriented projects. Problem statement for these projects is formulated after rigorous field survey. Students identify actual societal need and provide readymade solution to them. They also get the financial and resource support from the external agencies, through which they get to know about financial management. d) Value Addition Programs: To acquire the skills to carry over any of the project students require extra knowledge other than university syllabus according to the current needs. Institute offers specially designed VAPs to address these skills. At the end of every VAP evaluation is done only if students complete the given projects/assignments. e) Project Evaluation: Students completing any kind of projects exhibits it at different competitions held at institute such as TechnoSinh, PRAYOG and DISTA. These projects are evaluated by experts from industry and academia. These students are promoted to participate at higher level competitions outside institute. 5. Obstacles Faced and Strategies Adopted As number of well-established medium or large scale industries is comparatively less in Solapur region, students face challenges to get sponsored projects. To overcome this, institute has signed MoUs with renowned nearby industries and some industries from cities like Pune. Under this, students get opportunities to take up industrial trainings, internships and subsequently sponsored projects. Students from core branches lack somewhat in software skills which causes some challenge in taking up interdisciplinary projects. To address this issue, additional training sessions on programming and modern electronics are designed and conducted for such students. 6. Impact of the Practice: PBL model initiated by the institute is successful as it has reflected in . Improvement of students in understanding implementation of concepts for problem solving . Achieving skills required for the professional practice Students at Second Year and Third Year have come up with innovative ideas of implementing their theoretical concepts into practical solutions for small applications through their lab innovation activity and mini-projects.

Value Addition Programmes have helped students to use modern tools and technologies in their project work. This has been an additional attraction for recruiters during placement drives, as it prepares students to take up professional assignments in future. Final Year Students have been able to define genuine problems to solve in their major projects. They look forward with confidence to solve industrial sponsored projects and interdisciplinary projects. Also, product based projects have been chosen by some students.

Overall PBL model has helped students to develop the desired professional attributes like - problem solving approach, team work, sense of responsibility and leadership. 7. Resources required: Teachers with PBL mindset to motivate students Skilled teachers to train students on multidisciplinary aspects Good relations with nearby industries Well-equipped laboratories and workshops Best

Practice No.2 1. Title: Student Development Program 2. Objectives: Assist students to develop their academic and career interests Help students to achieve their short-term and long-term goals Train students to improve Soft Skills and overall personality to match with industry needs Organize pre-placement trainings, workshops, seminars for students Provide resources and facilities for their career planning Analyzing students skill sets by third party assessment 3. Context: There is rigorous requirement for putting extra effort on training students as majority of students in institute are come from poor socio-economic background and they lag in following skills, Presentation skills Communication skill Aptitude skills Public speaking skill Soft skill Leadership quality 4. Practice: To have effective training of students, institute has initiated following activities: 1. Student presentations: To improve student presentation, communication and public speaking skills institute provides platform from second year onwards where students deliver presentations on various topics. This activity is carried out in two phases: a)

Technical presentation: At second year, group of students gives presentation on any of the technical topic of their interest. They are free to choose this topic either from curriculum or recent trends. b) Profile presentation: At third year, individual student prepares and present his/her profile in the class. Student is required to present self-introduction, goals, achievements and projects carried out, etc. Student presentation helps them to increase their stage courage, confidence along with verbal and nonverbal skills. 2. Student training: To make students to face final interviews, institute takes efforts from first year itself which is monitored by TPO where departments help in smooth conductions of these trainings. This training module is carried out in four stages a) Communication skill: Students at first year undergo communication skill training. A dedicated teacher is available to conduct these sessions. A separate language lab with required ICT facilities is available in institute. b) Soft-skill: For second year students separate soft-skill training is provided by external experts, which helps students to improve their nonverbal communication and leadership qualities c) Aptitude training: Third year students undergo aptitude training which has different modules as quantitative and logical reasoning. This helps students to prepare for aptitude tests required for placements and competitive examinations. d) Pre-placement training: When students enter in final year they are trained on company specific modules which include soft-skills and aptitude training from corporate trainers. To help institute, alumni also join their hands in this training program and share their expertise as and when required. 5. Obstacles Faced and Strategies Adopted As most of students come from poor socio-economic background, students are not self-motivated to understand importance of these developmental programmes. To overcome this, the mentoring scheme at institute i.e. Teacher Guardian Scheme is used. Teacher Guardians allotted to every batch of students, conduct meetings and have one to one counselling of students. This helps in making students realise the requirements of professional world and need for putting extra bit of effort for overall development with technical knowledge. 6. Impact of Practice: By implementing this In-house Student Development Programme institute has been able to have enhanced placements and participation of students in different competitions and challenges at local and national level. It has been significantly observed that our alumni have shown remarkable progress at their respective workplaces. Most of them have received best employee awards for their contributions. It is due to the active participation of these alumni during their graduation days in overall student development activities. 7. Resources Required: Training of teachers to take up these training programmes and well planned academic cum activity calendar at institute level. Presentation and activity rooms equipped with necessary ICT facilities. Name of Institute : N B Navale Sinhgad College of Engineering, Solapur (Maharashtra) Year of Accreditation : 2018 Grade Awarded by NAAC : 'A' Address : Opp to Punyashlok Ahilyadevi Holkar Solapur University, Solapur-Pune National Highway, Kegaon, Solapur - 413255 Email : principal.nbnscoe@sinhgad.edu Website : www.sinhgadsolapur.org Contact Person : IQAC Coordinator, iqac.nbnscoe@gmail.com

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/best-practices/>

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 Government of India's vision for strengthening entrepreneurial activities at HEIs, NBNSCOE has started to initiate various activities related to Entrepreneurship. Initially Entrepreneurship Development cell (EDC) has

created an environment for students to nurture innovative ideas. Under Ministry of Human Resource Development (MHRD) our institute has developed Institutions Innovative Cell (IIC). IIC follows the activity calendar given by MIC and also undertakes additional entrepreneurial and innovation activities. Project Based Learning has been a distinctive practice of NBNSCOE, since 2014, in addition to this, now 'Project to Product' and from 'Lab to Market', these concepts have been implemented by NBNSCOE through its IIC. Under IIC and new ideas are promoted and nurtured so that it can be converted into product. IIC in association with EDC organizes many seminars, webinars, guest lectures, workshops and many more activities throughout year so that students get better exposure for developing innovative ideas and work properly so that they can become entrepreneur. Exposure regarding IPR is also given to students so that innovative ideas can be nurtured and converted into good products. IIC had been previously awarded 3 stars out of 5 star rating, now its star rating is 4.5 out of 5 stars. In addition to this institute has received ARIIA ranking between 51-75 in Band-C category of colleges. These initiatives and achievements of the institute in the arena of Innovations and Entrepreneurship make it outstanding in the region. NBNSCOE believe that in near future Solapur region can become a hub for industries and our institute plays a major role to produce more entrepreneurs for the same.

Provide the weblink of the institution

<http://sinhgadsolapur.org/EdSite/ariia-2/>

8.Future Plans of Actions for Next Academic Year

1. In house Student Training Program for various career opportunities: Due to poor social economic background it was found that most of the students are not opting for paid training for placement or other career options. After considering this parameters institute has taken the decision of creating free training to students of Third year engineering through our own faculty members. Faculty members were identified who have completed Training/workshop/certification in various topics which are required by industry and allotted the work of student training. Faculty members were allotted time to prepare for the topics and they provided training for Aptitude, Technical Training, Group discussion and Interview skills. Now, institute has its own expert members for different skills required by students for placement activities, so that all students from different background not find difficulty in attending the trainings. Feedback from students was taken and analyzed and appreciated the efforts taken by institute. Institute is promoting faculty members to undergo training/certificate courses on various recent topics so that expert training can be provided to students

2. Online Teaching/activities with immediate effect during pandemic situation: As it is known from March 2020 pandemic situation is created all over the world. Immediately IQAC meeting was called and discussion on various options was done. Finally, it was advised by the members to immediately start with online classes, so that student should not suffer any loss. Once our institute has started online teaching, immediately IQAC conducted a free workshop for school/polytechnic teachers to use online facility. Around 454 participants attended the workshop which was conducted in batches. Participants appreciated IQAC's effort to conduct such a needed workshop as they were not so technologically updated when compared to engineering institutes. It also helped institute to develop a good rapport with teachers from school/polytechnic/Junior colleges. Most of the teachers have used Google Classroom, Gnomio, FTP, moodle platform to provide study materials as well as for continuous assessment (ISE/ICA). Faculty members were given flexibility to use any online platform like Microsoft teams, Google meet, Gotomeeting or zoom to conduct the classes so that it should not be a burden on them as this initiative was immediately taken. After that institute conducted all the activities online, may be technical or non technical which helped student to participate in all the activities. All stake

holders appreciate this effort which was immediately implemented by our Faculty members. Student council also conducted all technical and non technical activities through online mode so that any regular activity should not be hampered due to pandemic situation. Most of the workshops and quizzes were also conducted through online mode. This best practice made all faculty members as well as non teaching staff to use the online platforms so that all work can be carried out as work from home without loss of any activity.