



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		SKN SINHGAD COLLEGE OF ENGINEERING
Name of the head of the Institution		Kailash J. Karande
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		+912186250146
Mobile no.		7350508899
Registered Email		principal@sknscoe.ac.in
Alternate Email		kailashkarande@yahoo.co.in
Address		At Post Korti, Taluka: Pandharpur
City/Town		Dist-Solapur
State/UT		Maharashtra
Pincode		413304
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Altaf Osman Mulani
Phone no/Alternate Phone no.	+912186250104
Mobile no.	8806806756
Registered Email	altaaf.mulani@sknscoe.ac.in
Alternate Email	aksaltaaf@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://sknscoe.ac.in/AQAR2018-19.php
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://sknscoe.ac.in/downloads/Academic_Calendar_2019-20.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.02	2017	30-Oct-2017	29-Oct-2022

6. Date of Establishment of IQAC	01-Sep-2017
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Three International Conferences with publication in Scopus indexed journals	02-Jan-2020 3	250

NPTEL NBA Accreditation and Teaching-Learning in Engineering (NATE) certification course by faculty members	27-Jan-2020 90	75
Students internship	15-Dec-2019 30	375
Coursera certification courses by students	15-May-2020 90	328
Coursera certification courses by faculty members	15-May-2020 90	74
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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
SKNSCOE/COMP/Engineering	Intelligent water supply management system for smart cities using IoT	PAHSUS	2020 730	70000
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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 :

2

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?

Yes

If yes, mention the amount

36000

Year

2020

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

Motivated faculty members and students to get the Coursera certification

Implemented flipped classroom model during Pandemic situation

Encourage faculty members for submission of proposals to various funding agencies

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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
Strengthen Research and Development activity	Received fundings from organizations like MHRD, PAH Solapur University etc
Establish incubation cell to promote the students for project based learning	Incubation Cell established
Organize International Conference	Organized three International Conferences with publication in Scopus indexed journals
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
IQAC	20-Mar-2020

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

2018

Date of Submission

31-Dec-2018

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)

Staff appraisals for the academic year is done online. Feedback of students for all the faculty (teaching them) are

taken online. Online portal is made available for stakeholder's grievances. The institute also has 'GEMS' (Governing Educational Management System) ERP based software. All the communication related to placement opportunities and selection process is made through GEMS software to students as well as alumni. New Integrated Tally based software is used for getting the fee details and distribution. SOUL software is used for library management. Also 'PAYWIZ' software is used for maintaining the data of salary, income tax, professional tax etc.

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 follows the curriculum provided by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur. Depending on our resource availability, institutional goals and concern towards the students, institute impart quality education. The institution has developed a structured and effective implementation of the curriculum. Faculty members prepares the course file of the subject allotted. Course file contains syllabus, subject notes, assignments, multiple choice questions (MCQs), previous university question papers, time table etc. At the beginning of every academic year, the college prepare an academic calendar. The Dean Academics of the college sets the time table schedule of each department for smooth conduction of academics. The college receives regular updates of circulars through letters and emails from the university, regarding the changes or modifications in the curriculum. The Principal informs the concerned teacher about changes in curriculum and gives them a copy of the same. Faculty members receive all sorts of support from the university and college to understand the curriculum. Timely meetings are conducted and instructions are given for submission of assignments and conducting Unit test. Internal tests are well planned and executed before final examination. In addition to this, institute has successfully started and implemented flipped classroom model during the pandemic situation. Also, the online tests conducted in that duration. Also, the institute has moodle server through which the mechanism of course material delivery to students is ensured. The students also uses the platform of moodle server for online test, In Semester Evaluation (ISE) assignments and Internal Continuous Assessment (ICA) submission. The concerned faculty members makes assessment of submitted Unit Tests, MCQ tests, assignments and experiments. The continuous assessment of student is carried by using moodle platform on regular basis and final marks of ISE and ICA are decided based student submission and performance.

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
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HTML	-	04/02/2020	90	Employability	Technical Skill
Drupal	-	01/01/2020	90	Employability	Technical Skill
Python 3.4.3	-	01/01/2020	90	Employability	Technical Skill
Java	-	01/01/2020	90	Employability	Technical Skill
PHP and MySQL	-	01/07/2019	90	Employability	Technical Skill
C and CPP	-	01/07/2019	90	Employability	Technical Skill
Developing Soft Skill and Personality	-	26/08/2019	56	Employability	Soft skill
Problem Solving through programming in C	-	01/07/2019	90	Employability	Technical Skill
Cloud Computing	-	01/07/2019	90	Employability	Technical Skill
Ethical hacking	-	01/07/2019	90	Employability	Technical Skill
Python for Data Science	-	01/01/2020	90	Employability	Technical Skill
Inspection and Quality Control in Manufacturing	-	01/01/2020	90	Employability	Technical Skill
R programming	-	01/01/2020	90	Employability	Technical Skill

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Mechanical Engineering	01/07/2019
BTech	Civil Engineering	01/07/2019
BTech	Electrical Engineering	01/07/2019
BTech	Electronics and Telecommunication	01/07/2019

	Engineering	
BTech	Computer Science and Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	983	Nil

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
Web development-HTML, CSS, Javascript, AngularJS, NodeJS	18/01/2020	29
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	14
BTech	Civil Engineering	128
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>The institution collects the feedback on curriculum aspects and courses from different stakeholders such as the students, alumni, parents, Faculty and Employers. Institution has established IQAC cell in order to ensure and analyse the academic excellence at student and faculty levels. Periodical analysis is made by IQAC cell from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment. SKN Sinhgad College of Engineering thoroughly reviews the curriculum for every academic year. The college maintains an IQAC as a quality consistence and quality enhancement measure. In supervision of IQAC, various departments and committees reinforce the curriculum by incorporating updated information and social issues. Institute collects the online feedback from students on Curriculum which is prescribed by the university. Online feedback system is the web based feedback collection system from the students. It provides automatic generation of feedback, its analysis which is given by the student. IQAC cell do detailed feedback analysis and discussion is made with individual faculty member and further action is taken in case of poor performance. Feedback is also collected physically from stakeholders viz.</p>

Parents and Teachers on overall development of students and further college invites stakeholder to provide feedback through various events. Parent meets are organized by each department and suggestions are taken physically from parents. Feedback is also taken from teachers of Institute by Principal through one to one interaction. The college conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni students. Online feedback is taken from industrial personnel and professionals and also it is obtained through college website's feedback blog.

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	Computer Science and Engineering	60	60	60

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1230	95	89	12	116

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
116	116	9	34	34	5

[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)

Teacher Guardian Scheme where approximately 20 students were assigned to each Teacher Guardian for complete four or three years. The main objective of Teacher Guardian scheme is to monitor and enhance the overall progress of student. This is achieved by conducting weekly meeting of assigned students and give moral support to the students and develop positive attitude among them. Faculty members interact and motivate students about their involvement in academic events like attendance, results, departmental activities, Training and Placement activities, value addition courses, Internship and current Industry requirement. Faculty members also increase students' abilities to interact with other social and cultural groups, and to encourage development in new field related competencies. This will also give students a platform to discuss their difficulties and personal problems.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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1325

116

11

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
90	116	Nil	Nil	9

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	Dr. Kailash J. Karande	Principal	Editor (IOP Conf. Series: Materials Science and Engg.)
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2.5 – Evaluation Process and Reforms**2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year**

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	664329310	I/F.Y. B.Tech.	18/12/2019	28/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Institute adopts centralized Continuous Internal Evaluation (CIE) system to assess all aspects of a student's development on a continuous basis throughout the year. Students are made aware of the evaluation process through orientation programmes at the beginning of the semester, Academic Calendar with Internal Exam dates, Orientation on changes in the evaluation process through Teacher Guardian Meetings and Display on the College and Departmental Notice Board. Continuous assessment of student's academic performance is done based on monthly attendance review, regular assessment, test performance, LCD presentation, group discussion, project (other than compulsory), IIT NPTEL courses, IIT Spoken tutorial, moodle test and involvement in extracurricular and cocurricular activities.

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

Academic calendar is prepared by Dean (Academics) in consultation with Principal and Head of Departments. At the beginning of academic session, students are acquainted of academic calendar and same is uploaded on college website and displayed on notice boards and at strategic locations. Only head of the institution can incorporate minor changes in academic calendar considering the unexpected circumstances. The schedule of all Examinations is given in academic calendar. The subject teachers announce the syllabus and display question bank for various tests as per the academic calendar. The slots of the various tests are mentioned in the academic calendar. Examination schedule of

these exams is announced and displayed in advance by Dean (Academics). Display of marks is also as per the schedule given in academic calendar. Various departmental as well as central activities are incorporated in academic calendar.

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://sknscoe.ac.in/IOAC/PEOs_POs_PSOs.pdf

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
664329310	BE	Electrical Engineering	69	69	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://sknscoe.ac.in/IOAC/Student_Satisfaction_Survey.pdf

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
Industry sponsored Projects	365	Shrinath Enterprises and welding works	0.2	0.2
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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
Advanced Optimization Tools Techniques for researchers Engineers	Mechanical	23/05/2020
Reinventing Research: Role of IPR for revenue generation	Mechanical	09/06/2020
Quality Research Paper Writing, Publication and Research Methodology	Mechanical	22/06/2020
IoT and its Applications	Electrical	30/12/2019
Contribution of building chemicals in Building	Civil	29/01/2020

Performance		
Total Station	Civil	07/09/2019
Concrete Mix Design	Civil	26/09/2019
Industrial Automation (Special Purpose Machine Development)	Electronics Telecommunication	24/07/2019
Advances in Embedded System	Electronics Telecommunication	22/08/2019
Internet of Things and Its applications	Electronics Telecommunication	04/10/2019
New trends in Electronics- Electric Vehicle	Electronics Telecommunication	04/02/2020

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
Design and development of Dustless duster	Omkar Mane	Punyashlok Ahilyadevi Holkar University, Solapur	09/10/2020	Project Exhibition
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Incubation Center	SKN Sinhgad College of Engineering, Pandharpur	Nil	Nil	Nil
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
5	1	11

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

Name of the Department	Number of PhD's Awarded
Mechanical	1

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)
National	Mechanical	9	0
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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

[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
Study of Ergonomic analysis of automobile engine maintenance workstation suggesting improvements	Prof. S. D.Katekar and Prof S.C.Mali	IOP Material science and Engineering	2020	0	SKN Sinhgad College of Engg., Pandharpur	Nil

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Study of Ergonomic analysis of automobile engine maintenance workstation suggesting improvements	Prof. S. D.Katekar and Prof S.C.Mali	IOP Material science and Engineering	2020	Nil	Nil	SKN Sinhgad College of Engg., Pandharpur

[View File](#)

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	56	157	66	15

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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
Celebration of	Sinhgad NSS Unit	4	52

International Yoga Day	and SKN Sinhgad College of Engineering, Korti-Pandharpur	
View File		

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
Virtual Lab	Top performing Nodal Centers	Amrita Virtual Labs	350
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
National Social Service	Sinhgad NSS Unit And SKN Sinhgad College of Engineering ,Korti-Pandharpur	Celebration Of International Yoga Day	4	52
View File				

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
Resource Sharing and Faculty Exchange	01	Department of Applied, Defence Institute of Advanced Technology, Girinagar, Pune (Deemed University)	1825
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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
Training	Internship /Training	Accura mould and dies (India). Pvt .Ltd..Chakan , Pune-410-5	01/12/2019	30/12/2019	4

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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
Zagazig University, Zagazig, Egypt	08/01/2020	Expand the research activities at International Level	3

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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
350	224.38

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SOUL	Partially	2.0	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14711	5005548	598	182909	15309	5188457
Reference Books	3476	1216600	125	43750	3601	1260350

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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
Dr. Mulani Altaaf Osman	Course Content	Moodle/Google Classroom/Youtube	04/04/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	575	17	32	12	1	1	6	32	0
Added	0	0	6	0	0	0	0	6	0
Total	575	17	38	12	1	1	6	38	0

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

38 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
Virtual lab and seminar hall	https://www.youtube.com/channel/UCWB9fy6fAuzfS6EfMO-ZVQ?view_as=subscriber
Course content and related video lectures	http://103.127.76.195/

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
3	2.91	8.5	8.45

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)

Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. Physical facilities: Following are some of the physical facilities available inside the campus: 1. Sports 2. Solar water heater 3. Electrical Section 4. Gym 5. Parking facilities 6. TV room 7. Guest House 8. RO water system Sports: Institute has provided separate sport section along with recreation room which facilitates students with cricket kit, badminton kit, table tennis, carom, chess, football, basketball etc. Students can get and utilize any of the above mentioned kit and material whenever required. Whenever any repair or maintenance is required, estate office take necessary action on this. Solar water heater: Institute has provided solar water heaters in the hostels. Hostel students can utilize this whenever required. These solar heaters are regularly maintained by plumber of pump house section. Electrical section: In campus, express feeder supply is available. Whenever there is any problem regarding power supply, technicians from electrical section takes care. In addition to this, if there is power failure, power generator backup is made available whenever required. Gym: Gym facility is also available inside the

campus. This facility is available in the morning from 6:00 am to 8:30 am and from 6:00 pm to 8:30 pm. Proper team is allocated for cleaning and maintenance from estate office. Parking facilities: Institute has well developed parking system for two wheelers, 4 wheelers and buses. Cleaning is done regularly by sweepers. Systematic parking is maintained by security section. TV Room: TV room is available inside the campus. This room is made available and utilized by students after college hours whenever required. Cleaning and maintenance of TV room is done by Estate office with the help of sweepers and electrical technician. Guest House: Guest house is available inside the campus which can be utilized for resource person, guests and parents whenever required. Cleaning and maintenance of guest house is done by Estate office with the help of sweepers, plumbers and electrical technician. RO water system: RO water system is available in whole campus. This facility can be utilized by students and staff members from all departments, hostels, canteen, library, mess etc. Cleaning and maintenance of RO water system is done by plumbers and technician from Pump house section. Academic facilities: Following are some of the academic facilities available inside the campus: 1. Laboratories and computers 2. Library 3. Offices, Classrooms, Tutorial rooms and Seminar Halls Laboratory and Computer equipment: The institute regularly maintains the laboratory equipment by checking the working status of instruments before start of every semester. The minor maintenance is carried out by the laboratory assistants. Laboratory in-charge along with laboratory assistant are maintaining dead stock register and register for consumable material and to undertake physical dead stock verification of laboratory material. Laboratory assistants are maintaining log book in laboratory, updating laboratory board periodically, maintaining equipment, kits, wires, probes etc. Laboratory assistants are issuing equipment and components to the students. They are regularly updating the display

http://sknscoe.ac.in/IQAC/Procedures_Policies.pdf

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	Earn and Learn Scheme	22	44810
Financial Support from Other Sources			
a) National	<ul style="list-style-type: none"> • Dr.Punjabrao Deshmukh Vastigruh Nirvah Bhatta Yojna (DTE), • Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna (EBC), • Scholarship for students of minority communities pursuing Higher and Professional courses (DTE) • OBC, SEBC 	1358	51446717

b) International	Nil	Nil	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 implementation	Number of students enrolled	Agencies involved
Communication Skill-I	01/07/2019	138	SKN Sinhgad College of Engineering
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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
2020	GATE-2020	329	329	4	Nil
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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
2	2	10

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
Accenture	74	20	Yashaswi Group	57	13
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	2	B.E.	Electronics Telecommunication Engg.	SKN Sinhgad College of Engg., Pandharpur	M.Tech. (Electronics Engg.)
View File					

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	4
View File	

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

Activity	Level	Number of Participants
Sport	University	95
View File		

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
2019	Taekwondo Winner	National	1	Nil	NA	Shubham Katkar
View File						

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

College provides a platform for the active participation of the students in the various academic administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills. The selection of Student council members, its constitution, activities and funding is mentioned as below: • Student council includes representative student members. • The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. • The members of student council are selected based on merit of students in University examinations. The students those acquires highest score in university examination are preferred. Branch wise and class wise one student is selected from first Year to Final Year. • Through Student Council, students are encouraged to share their ideas, interests and views related to academic, cultural, social and welfare concerns. They often help to raise funds for wide activities, including social events, community projects, helping people in need and college reform. • Various programs like paper presentations, workshops and seminars are organized by these bodies every year. We have formed 4 student committees such as: Library committee, Cultural Committee, Mess Committee and Sports Committee The funding for various activities of the internal college bodies is provided by the College Management.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute has a registered Alumni association (Registration Number: MH764/2015 Date: 27/10/2015). • The Alumni association contributes actively for development and expansion of the institution. The alumni meeting is organized once in a year. Prominent alumni are invited for guest lectures, sessions for motivating the students for higher education and career counselling. • The institute has a social networking page and a separate link to the website where

the alumni can register and connect to share their ideas. The feedback received from alumni are taken into consideration for improvement in academic and infrastructure development.

5.4.2 – No. of enrolled Alumni:

491

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

491000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meet was organized in the college on 8th March 2020. Yearly one meeting is organized under this association.

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)

Decentralization The institution has a mechanism of providing operational independence to various functionaries in order to ensure a decentralized governance system. 1. Principal Level Principal is the member secretary of the governing body and chairperson of the IQAC. Principal nominates different committees for planning and implementation of different academic, student administration and related policies. All academic and operational policies are based on the unanimous decision of the governing body, the IQAC and senior faculty. 2. Faculty level Faculty members are given representation in various committees/cells nominated in the Governing body, in the IQAC and other committees. Every year, the composition of different committees is changed to ensure a uniform exposure of duties for academic and professional development of faculty members. Following are the different committees which have been formed during 2018-19: • Alumni committee • Library committee • Deadstock committee • Purchase committee • Publication/Media cell committee • Grievance redressal committee • Training and placement committee • Admission committee • Research and Development committee • Sports committee • Cultural subcommittee • IIT remoter center committee • Hostel committee • Examination committee • Entrepreneurship Development Programme committee • NSS committee • Antiragging committee 3. Student level Students are empowered to play an important role in different activities. Students are members of various committees such as: • Student council • Mess committee • Library committee 4. Nonteaching staff level Nonteaching staff are represented in the governing body. Suggestions of nonteaching staff are considered while framing policies or taking important decisions. Participative management The institution promotes the culture of participative management at the strategic level, functional level and operational level. • Strategic level: The Principal, governing body and the IQAC are involved in defining policies procedures, framing guidelines and rules regulations pertaining to admission, examination, discipline, grievance, support services, finance etc • Functional level: Faculty members share knowledge among themselves, students and staff members while working for a committee. Principal and faculty members are involved in joint research and have published papers • Operational level: The Principal interacts with government and external agencies faculty members maintain interactions with the concerned departments of affiliating university. Students and office staff join hands with the Principal and faculty for the execution of different academic, administrative, extension related, cocurricular and extracurricular activities.

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
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<ul style="list-style-type: none">• Library: Library committee consists of representative members from each dept. The committee ensure requirement of books, journals, e-journals are available. Automation in Library management is increased. The automation of user's entry register is completed by installing separate commercial software for getting the statistics of user visits to library. The use of open source digital library management software has been initiated for making availability of question papers, syllabus, newspaper clippings, e-books and video lectures in digitized format.• ICT: The institute has IIT Remote centre as a part of NMEICT. Institute conducts spoken tutorials for enhancement of technical skills. In addition to this, Virtual (AView) classroom is also used to conduct various Webinars and online courses. The class rooms of Institute are equipped with LCD Projector and WiFi. Institute has MOODLE Server Setup. The faculty members upload their course material, question banks etc. on MOODLE server and students are using it enrichment of technical knowledge.• Physical infrastructure/instrumentation: The Institute provides good and modern infrastructure like classrooms, laboratories, library with reading room, internet facility, parking facility, gymnasium, playground, cafeteria, canteen and hostel with separate mess for boys and girls in the campus.
<p>Research and Development</p>	<p>The institute has separate RD cell. The institute motivates faculty members for writing seed money proposals, funding proposals through this cell. Faculty members are inspired to go for doctoral programs. Students and faculty members are encouraged to publish their research work in reputed journals/conferences. The excellent infrastructure, modern laboratories are made available for the students and faculty members to carry out research</p>

	activities
Examination and Evaluation	<p>Examinations are conducted and evaluated as per the norms of PAH Solapur University, Solapur. Standard question banks are provided to the students for each subject and based on that, three unit tests are conducted in each semester to evaluate the students' performance. Moodle Online objective tests are conducted for every subject.</p> <p>External theory examination and practical/oral examinations are conducted as per university norms. Term work evaluation is done on continuous basis. Students are made aware of their term work performance on early basis so that they get an opportunity to improve their academic performance.</p>
Teaching and Learning	<ul style="list-style-type: none"> • The video lectures of each faculty members are recorded for continuous improvement in teaching learning process. These are made available to students and teachers on FTP server. • SLS (Self Learning Sessions) are conducted for students. In this, the questions are provided for concerned subjects during lecture hours by faculty member. And students are solving these questions by taking help of note book, reference books, and teachers during lecture hours. • Online chapter wise Moodle objective test for each subject is conducted in every semester. • Remedial sessions are arranged for academic weak students. • Three internal unit tests, mock practical exams are conducted for improvement in academic performance of the students. • Assignments, tutorials are provided for the students. • The project exhibition competition, technical paper presentation competition is organized by each department. • Technical subject LCD presentation sessions, expert lectures from academicians, industry people and alumni are organized for the students. • Industrial visits, site visits are arranged for enhancing technical knowledge among the students. In addition to this, flipped classroom module is implemented during the pandemic situation.
Curriculum Development	<p>The Institute is affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur. Board of studies (BoS) is a body in the</p>

	<p>University to formulate the curriculum. Senior experienced faculty members of the institute are working as member and Chairman of Board of Studies of the University. They are actively involved in the process of curriculum development by keeping in mind requirement of industry. The inputs in curriculum development to meet industry requirements are taken from stakeholders like alumni, corporates, academicians, parents etc.</p>
Human Resource Management	<p>Principal manages this aspect by allocating different works to the staff having expertise in the same. The various institute level committee are comprised of the Principal, Deans, Heads of Department and faculty members for maximum benefits of division of work. Accordingly, authority and responsibility are delegated among the staff members.</p>
Industry Interaction / Collaboration	<p>Industrial in plant training is provided for the students during vacations by contacting various industries. The industrial visits are organised every year for the students. The students are motivated for industrial sponsored projects. The memorandum of understanding (MOU) are made for collaborative work of institute with industries. The EDP cell encourages students to prepare best business plan proposals. Faculty members are promoted for industrial training during vacations. In addition to this, online internship was provided to the students in collaboration with the industry.</p>
Admission of Students	<p>Director of Technical Education (DTE), a state government body regulates admission process of engineering aspirant students. The institute organizes Engineering career opportunities sessions, admission process awareness programs for the students</p>

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

E-governance area	Details
Planning and Development	SOUL 2.0 is used for library management
Administration	GEMS tool is used for faculty appraisal and placement related activity.

Finance and Accounts	PAYWIZ is used for salary and income tax of staff.
Student Admission and Support	Moodle is used to keep the subject notes and assignments for the students
Examination	Moodle is used to to take the internal tests (Aptitude preparation and Multiple Choice Questions of all the subjects) of students

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	Ravindra Takalikar	E Sim First course in the IoT Series for Teachers	IIT Bombay	400

[View File](#)

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	NA	Communication and Soft Skill Development	23/12/2019	28/12/2019	Nil	20

[View File](#)

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
Sustainable Materials and Green Buildings	2	01/07/2019	31/10/2019	120

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

116	116	66	66
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6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Term Insurance	Term Insurance	Term Insurance

6.4 – Financial Management and Resource Mobilization

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

Yes. Since 2011, Institute conducts yearly audit regularly.

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
MHRD and IIT Delhi	50000	Unnat Bharat Abhiyan
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6.4.3 – Total corpus fund generated

4000000

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 Monitoring Committee	Yes	Principal and Dean Academics
Administrative	Yes	Academic Monitoring Committee	Yes	Principal and Dean Admin

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

<ul style="list-style-type: none"> The parent meet is organised by each department every year. Parents provide valuable inputs for the efforts taken by the Institute for the overall development of the students. The suggestions of parents are incorporated for the improvement in the existing system of the institute. Whatsapp group is formed in each department for sharing various activities organized in the institute. Parents are also invited for various events like project exhibition, cultural activities etc
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6.5.3 – Development programmes for support staff (at least three)

1. Computer awareness 2. Computer and Hardware maintenance 3. Communication and Soft Skill Development
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Coursera certification courses by 74 faculty members 2. Coursera certification courses by 328 students 3. NPTEL NBA Accreditation and Teaching-Learning in Engineering (NATE) certification course by 75 faculty members 4. Three International Conferences with publication in Scopus indexed journals
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6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	NPTEL NBA Accreditation and Teaching-Learning in Engineering (NATE) certification course by faculty members	16/09/2019	27/01/2020	26/04/2020	75

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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
Gender Equity	02/10/2020	02/10/2020	103	128

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
100 percent solar thermal water heater are present in hostels for water heating. The students are using hot water. Food waste Biogas plant is available which accommodates approximately 10 to 15 percent of energy required for cooking the food.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Ramp/Rails	Yes	1
Rest Rooms	Yes	10
Scribes for examination	Yes	2

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	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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		community					
2019	3	3	08/07/2019	2	Cleaning of Palkhi Tal, Vishesh Shram Sanskar Shibir at Bhalvani and Fort Cleaning Activity At Satara District	Cleaning	200

[View File](#)

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Human Values and Professional Ethics	01/07/2019	Through Student council the regular input is taken and accordingly reformation is made. Frequently parent meets are conducted for getting their suggestions. Alumni meet is organized every year for better interaction and inputs. Industry feedbacks are taken through T and P department. All kind of leaves are given to teaching and non teaching faculty members. Free Medical facility is available in institute premises for all stake holders. For girl students Savitribai Phule Girls Forum is available through which enrichment activities of girl students is ensured.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Gandhi Global Solar Yatra	02/10/2019	02/10/2019	57

[View File](#)

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Biogas plant operating on Kitchen Waste is constructed
2. Waste water treatment
3. Waste water circulation for watering trees.
4. Hot water using Solar flat plate collectors
5. Green Campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice No: 1 Title of the practice: Online Internship/Certification courses Objectives: • To improve the learning ability of students • To improve the presentation (writing) skill. • To clear the doubts through interaction session The context: Institute has made MoU with Coursera, Eliation and TCS iON training centers for providing online internship programs to students and faculty members. Accordingly a schedule is prepared for the students. Also, students and faculty members have been given a freedom to choose a course of his/her interest and enroll for Coursera certification courses. The practice: Login Ids of all the students are created and different courses for online internship are introduced to the students. Different slots are given to the students to complete the online internship for 15 days. Most of the students have selected communication skill, C programming etc for upgrading their soft skill as well as technical skill. In addition to this, students have been given a choice to select course from Coursera certification courses of his/her interest. Problems encountered and resources required: Students staying in villages have faced network issue while completing online internship. Evidence of success: Few of the evidence of success are quoted as example. • Due to online internship, count in placement is improved. • Students upgrade their soft skill as well as technical skill. Best Practice No: 2 Title of the practice: Teacher Guardian (TG) System Objectives: • To enhance the overall progress of student. • To interact and motivate students about their involvement in academic issues like attendance, results, departmental activities, T and P activities, value addition courses, Internship and current Industry requirement. • To give moral support to the students and develop positive attitude among them. • To focus on hidden qualities of students and help them to develop career skills. • To maintain proper record of student's information (Roll no., contact, address, academic performance). • To maintain good rapport with parents, Interact with the parents about progress/failure of their ward by sending letters/SMS and also keep record of interaction. The context: Every student's academic performance and attendance is monitored on monthly basis and the students whose performance or attendance is poor are identified. Student's performance can be improved by counseling. Sometimes psychological confidence should be built up so that fear about a subject can be removed. The practice: This scheme is implemented effectively for FE and SE students for the better coordination and communication between staff-student and staff-parents. For every twenty to twenty five students, one teaching faculty is allocated as a teacher guardian. The respective faculty takes continuous follow up of academic, curricular and co-curricular development of every students and identifies students having good, average and poor performance. The teacher guardian makes calls and inform about the same to respective parent and also called them for counselling if required. Problems encountered and resources required: • Adequate time is not available during college hours for conducting meet but this was overcome by conducting meeting after college hours. • Initially the students were hesitating to speak about the problems then TG made them speak out by talking with them in informal way. Evidence of success: Few of the evidence of success are quoted as example: • Due to motivation at the time of TG meeting more students are participating in VAP, Extra- curricular and Co-curricular activities. • When students face difficulty in understanding the subject, the concerned staff members were informed and counseled by the Head of Department for improvement.

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

<http://sknscoe.ac.in/BestPractices.php>

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

To bridge the gap between curriculum and current Industry requirement, it is necessary to prepare students technically and practically strong enough. Project based learning helps to assure this objective. It can be done by only mind cultivation of students from the beginning of technical education, so institute primly focus and starts working from first year of engineering to inculcate practical attitude in their minds. It also sharpen their technical imagination and allow them to think on various aspects required for doing projects. Also, Institute has started to send two faculty in every academic year from each department for industrial training so that faculty can share their knowledge which they earn in the industry with the students. For effective and successful implementation of project based learning institute supports in various aspects like, • Motivate students for doing mini or major project from second year to final year. Students are encouraged for industry sponsored projects. • Institute supports mini and major projects by extending financial support in terms of equipment and consumables as per the requirements of projects. • Department of Electronics and telecommunication students run a component bank for easy availability of electronics components for doing project work. • Conduct national level project competition (WEENGs) in every second semester of academic year. • Provides incentives for participating in national and international project events. • Appreciation and reward regularly for achievements of students. • Collaboration with Coursera, Stanford University for various certification courses.

Provide the weblink of the institution

<http://sknscoe.ac.in/InstituteDistinctiveness.php>

8.Future Plans of Actions for Next Academic Year

Promoting the faculty members for getting research funds from various government/private organizations. To start an Institute Innovation Council which will encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. To promote activities related to Incubation center. Organize Faculty Development Programmes (FDP)/ STTP in each department to upgrade the knowledge of faculty members. Enhance the industry institute interaction to get the current scenario about the industry. Arrange the various student training programmes to increase the placement of students in well known organization. Also, motivate students to prepare for competitive examinations and start-ups. To start preparation for NBA accreditation in all departments.