



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**JAGDAMBA EDUCATION SOCIETY'S S.N.D. COLLEGE
OF ENGINEERING AND RESEARCH CENTER
.BABHULGAON, YEOLA.**

A/P - BABHULGAON, TAL - YEOLA, DIST - NASHIK, PIN - 423401.
423401

www.sndcoe.ac.in

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

SND College of Engineering and Research Center Yeola, established in 2006, by Jagdamba Education Society's established in 1991. In the last 15 years the Institutes has grown horizontally and vertically. Institutes offers both UG and PG Programmes of Savitribai Phule Pune University, Pune in all Major engineering branches Like Mechanical, Computer, Information Technology, Electrical, Civil and MBA. Major landmark in development of Institutes were ISO 9001:2015 Certification and NAAC Accreditation.

The objectives of the Institute is to devolved entrepreneurs and quality engineer with competence and character, to become extra ordinary in the present technological scenarios of globalization, who will contribute to techno and socioeconomics development of country . For this the Institutes has introduced various value –add and training Programs conducted by industry expert. Active MOU's have been signed to provide internship in industries. Institutes also focus on multi-dimensional development of students by encouraging them to participate in co-curricular and extra – curricular activities at local and global level. The Institute is working hard to bring various MNC's for campus placements with better salary packages. Institute have excellent academic environment and hands on training programme for nurturing good quality technical education amongst the budding engineers. This resulted into more placements and Institute is keen to arguments it further. Institute is quite self –assured for nurturing of all students as a young bright , dynamic , talented and professional technocrats along with responsible gentle citizen .

Vision

To create multifaceted engineers ready to serve the nation and the world.

Mission

To use value based universal education of engineering and technology to develop the nation for global competitiveness and bring harmony to mankind.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Multifaceted leadership & supportive parent society
2. Lush meet campus of 10 acre with pleasant & pollution free environment
3. Modern infrastructure with state of art laboratory, ICT enabled classroom, sport facilities, gymnasium etc. Meets the requirement of regulatory authorities.
4. ISO certified 9001:2015
5. With UG Each branch has PG program & additional PG program in management
6. Strong mechanism to solve the problems of stake holders with tutor/mentor system
7. Good retention ratio of faculty speciality in core branches.

8. In and off campus placement improvement in last two year is remarkable.
9. Institutes motivates the faculty for qualification up gradation.
10. Regular salary of all teaching & non-teaching staff even in pandemic periods salaries were reimbursed.
11. Specialization of faculty is devised along with UG.
12. Active NSS unit contribute values to society.
13. Conduction of co-curricular & extracurricular activity along with academics.
14. MoUs with industries
15. Collages conducts activity seminar /webinar workshops to fill the gap between academics.

Institutional Weakness

1. As college is in rural area students are weak in soft skill.
2. Parentage of educated parents is less.
3. Adherence to curriculum given by affiliating university creates gap in industry expectation.
4. Consultancy work need improvement.
5. Funded research projects have not be undertaken.

Institutional Opportunity

1. Opportunities are present to solve the problems of farmers with application based technology.
2. Consultancy & research activities can be extended with MNCs & industry with intercommunicating, teleworking & free-lance.
3. Placement of core branches can be improved with the help of alumni network.
4. Govt. Initiative like make in India, Digital India, Smart cities can be used to enhance entrepreneurship & job opportunities.

Institutional Challenge

1. Meritorious student admissions.
2. Inculcating R&D activities among students.
3. Placement of all branches with higher packages.
4. Examination oriented learning approach needs to be changed.
5. Improvement of soft and hard skills of students to fulfil industry needs.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute is affiliated to Savitribai Phule Pune University. Curriculum and academic calendar are designed and published by University which is adopted by institute and the systematic procedure is followed for development, revision and implementation of curriculum of the various existing courses in the department. The Primary objective of the department is to prepare students to excel in higher studies and/or to succeed in their profession. However, the skills learnt through training programs, field visit, practical, research and exposure visit to the industries, etc., enhances the professional capabilities , orientation of the students at large. Before

the end of the term, each faculty member submits subject preferences to the Head of Department. Likewise, the electives are floated to the students to decide their choice to finalise and plan in advance for the electives. The proposed curriculum is discussed in the Curriculum development workshop and is put forth to Board of Studies where the experts from industry, academia, Alumni and senior faculty members. The curriculum is then placed for approval in the Academic Council of the University. Thus, curriculum is finally approved from above mentioned statutory bodies and implemented in the departments. As institute follows the examination pattern design by University. Students are assessed on all possible platform and the internal marks are given as per their performance in internal test, assignments, mock oral, mock practical, mock demo of project and their participation and achievements in each event in order to ensure justice with all students .In order to integrate and promote the cross cutting issues relevant to gender, environment and sustainability, human values and professional ethics, each department has formulated different types of courses and included them in the curriculum, so as to enhance professional competencies and inculcate gender, social and human values and environment sensitivity etc., thereby leading to the holistic development of students. Project filed work and add on/certificate program are offered to students for development and enhancement of skills other than academics. Feedback from student is taken each semester regarding academic, overall improvements. Stakeholder feedback, parents feedback and alumni feedback is taken regarding growth of institute.

Teaching-learning and Evaluation

Institute takes initiatives to assess learning ability & level of the students through induction program, performance in various examinations conducted in institute. Based on this evaluation special activities are undertaken as per need. The faculty provides students a platform to explore independently, learn through experiential, participative, individual and from their peers, also guides them to develop effective and lifelong skills through industrial visits/MoUs, NSS Activities. Provisions of ICT Tools like Moodle and additional library facilities with digitization are made available to students. Utilization of resources like Virtual laboratories, NPTEL, YouTube, PPTs, CDs, E-Journal, E-Books etc., to enhances effectiveness of teaching learning process. Innovative teaching approaches such as proactive methods, digital social learning platform, etc., are adopted by faculty members. Institute takes due care to provide required training and resources to the faculty members for implementing such innovative practices though seminars, STTPs, workshops etc. Institute, committed to provide quality education to students, has sufficient number of well qualified, competent, experienced teachers. Institute closely follows all the examination reforms and the time line scheduled by SPPU. The evaluation process is transparent and efficient and is well known to students. Various innovative formative and summative assessment tools aiming at multidimensional development of student are implemented regularly. Well defined committee is formed for addressing grievances. Tutor/Guardian mentee system is well defined to resolve student's graveness and other issue.

Overall performance and skills acquired are considered for measuring effectiveness of teaching learning process outcomes. The evaluations and stake holders' feedbacks are analyzed and reviewed for further planning and overcoming experienced barriers in learning.

Research, Innovations and Extension

Research is encouraged on both part-time and full-time basis leading to Ph.D courses. A few of the teachers are recognized as guides by other universities. Teachers are actively engaged and participating in conduction of seminars, workshop under QIP programs organized by SPPU, Pune. The institute has good infrastructure for research activity with all departments having acquired apparatus suitable for carrying out research work. A few

faculty members are engaged in research projects funded by the UGC or other agencies. The college has been conducting National level, State level conferences for the benefit and promotion of research atmosphere encouraging faculties and students to involve in article presentations/publications and establishing a collaboration for research activity. The institution has created a platform to have active interaction between the faculties, students and the eminent researchers/entrepreneurs through guest lectures. Faculty members of our institute has published text books, research articles in renowned journals & publications. 119 papers have been published by the faculties of our college in reviewed journals from last five years.

NSS students along with the support of faculty members of our college carry out extension activities. A few of the programs include Blood Donation camp, Voting awareness program, Covid-19 awareness Program, Tree plantation program etc. Several collaborations are made with industries, training institutions and research institutions for purposes of research collaboration and training students in the college. 20 MOU's have been signed by college with different industries and training institutions from last five years.

Infrastructure and Learning Resources

The institute has been developed and equipped with adequate physical infrastructure and learning resources. Entire campus is spread over 10 acres of land. Physical facility comprises of 34 classrooms, 81 laboratories, 9 seminar halls and 8 tutorial rooms following the AICTE norms. Training & Placement Cell is established with ample space, ATM counter, Cafeteria, generator room, etc. along with adequate areas for indoor and outdoor sports activities. Also College has amphitheatre of adequate area for celebration of cultural activities. Ramps and lift is being provided for physically challenged students.

Central library is fully computerized by automating the issue of books with bar code reader. The library has 4619 titles and 20151 volumes covering all major fields of Science and Engineering. The library has sufficient stack area with reading room with an ample study space. Library is partially automated using e-library Management System with version 2.0 implemented in the year 2011. Whereas services like Home Lending of Books, Reference Services, Reprography, Download, Printing, User Orientation and Awareness, Question Papers, Reading Hall etc. are available in library.

IT infrastructure development is done at regular intervals as it is continuous process. The institute has regularly updated the internet connection every year and as of now, the available internet bandwidth is 50 Mbps. As of now institute has 618 computers with students computer ratio as 3:1. ICT enabled facilities has been provided into classrooms and seminar hall for effective teaching and learning.

Maintenance of the physical and academic facilities is being done as per the policy framework. Landscaping, small scale electrical and civil maintenance is carried out by maintenance department at society level. Large scale maintenance activity is out sourced to local skilled agency. External agency is appointed for housekeeping. Maintenance of laboratories is done by following standard policy procedure by respective department.

Student Support and Progression

Students are the primary stakeholders of the institution and the institution is taking evolving measures like student empowerment, inclusive practices and skill development which are student supportive and student centric.

Institute has effective system of informing students of various schemes of scholarships and freeships. The average percentage of students benefitted by government scholarship is 81.31%. Institute has a scheme named SND Scholarship for the students which belongs to poor family and average percentage availing SND scholarship is 10.95%.

Institute has various committees such as student grievance committee, anti-ragging committee to address student grievances. The teaching-learning process is enhanced by various activities such as Expert lectures, Industrial Visits, Workshops and seminars to provide exposure of real life practical aspects to students.

Students are made aware of various opportunities after graduation such as GATE, MPSC, and UPSC etc. Various training sessions are conducted for career guidance and entrepreneurship development.

For the growth of all stakeholders, the institute working with qualified faculties on a plan to have 80% placement, 15% students motivated for higher education, competitive & civil service examination and remaining 5% as an entrepreneur. This resulted into more placement and institute is keen to argument it further. Institute is quite self-assured for nurturing of all student as young bright, dynamic, talented and professional technocrat along with responsible gentle citizen.

Training and Placement Cell, play vital role in conducting expert lectures, training sessions for students. 15% to 20% of students going higher studies and 40% to 50% of students are employed through in campus and off campus recruitment drives in every strata of Industry and 4 to 6% of the students become successful Entrepreneurs.

The Institute organizes various co-curricular and extracurricular activities in cultural and sports events like “KSHITIJ” which eventually help the students to showcase their talent. Our students have participated at Inter college level.

The alumni of the college have been actively involved in various events of the college either as resource persons, judges or facilitators for extra-curricular activities.

Governance, Leadership and Management

The institute is continuously working for the all- round development as per the guidelines of AICTE and affiliated university, ‘Savitribai Phule Pune University’, Pune. The institute is in pursuit to achieve the stated vision by striving to meet the mission statements. Institute satisfies the need of society by providing value based universal education of engineering and technology for creating multifaceted engineers.

The governance comprising of GB, CDC, Principal, HoDs play significant role in the evolutionary reforms towards positioning the Institute as one of the best Institute in the region. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by Deans, HODs, Administrative heads, Section in charges and coordinators of various cells in decision making process at the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well-developed process to ensure quality benchmarks of academic and administrative activities.

In pace with the vision and mission of the Institute, the GB has framed the quality policy driven by the needs of the industries, society and stakeholders. Institute has a perspective plan developed by Principal, Deans and

HOD's with suggestions of IQAC under the guidance of GB. Deployment of the quality policy is done by providing excellent academic infrastructure, beneficial learning environment and harmonious work culture. Student surveys and feedback from all the stakeholders plays vital role in framing policies.

Faculty is the backbone of institute. The Institute recognizes the importance of the dedicated faculty for realizing its vision. Institute has a HR policy for recruitment of a competent faculty. Faculty is encouraged for qualification enhancement and carrying out consultancy activities. Performance appraisal of faculty is done annually. Fair representation to women is ensured at all levels of organization and their safety and security is given the top priority.

All the planning, activities related to financial matters are being managed by central account section of the parent society. Based on the requirement from various HODs, accounts section prepares budget and makes provision for all the academic and administrative activities. After approval of GB budget is allocated to respective sections/ departments. Reserve and corpus fund is maintained as fixed deposit by the Institute. In case of deficit of financial resources parent trust supports. The management has appointed financial consultants and internal auditors for statutory auditing and monitoring the financial transactions.

The institute has IQAC cell for implementation of quality assurance strategies and processes at every level of the institution's functioning. Its functions are extended to all the constituents units of the Institute in providing support on quality initiatives in matter related to academics, incentives, research and administrations.

Institutional Values and Best Practices

The institute is committed to respect equality and diversity in each individual for age, gender, race, cultural background, learning level, experience, skills, beliefs and sexual orientation. Institute's Grievance committee and feedback system always cater any such issues on priority basis and take necessary actions whenever required. To promote equality, institute provides equal opportunity to male/female staff and students in administrative/teaching/co-curricular/extracurricular/sports activities and deputation to the courses, programs, higher studies, appointments, committees, placements etc.

The Institute organizes various programs under the National Service Scheme (NSS), Student Development Cell (SDC) to sensitize students about gender equity. Institute has also taken efforts for providing inclusive environment to enhance harmony towards cultural, regional, linguistic, communal, social, economic and other diversities. Institute has taken initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through activities mainly organized by NSS and SDC. The Institute has a friendly campus for differently abled students with facilities like ramp, elevators, and direct access to all classrooms and labs.

In order to save energy, institution has facilities such as solar energy, use of LED bulbs, etc. Water conservation facilities available in the institution include rain water harvesting, bore-well recharge, construction of tanks.

Our sprawling green campus has adopted environment-friendly policies with regard to plantation, solid, liquid/hazardous chemicals, E waste management, use of renewable energy sources and restricted use of plastic, pedestrian friendly ways. The Institute has carried out green audit and energy audit.

The Institute has introduced many innovations in teaching -learning process which has created a positive impact on enhancing students learning. The best practices include Digital Content development as Advancement to Teaching-Learning and Comprehensive Student Monitoring System. These practices ensure continuous

improvement in the performance of students made them to fly with seven colours.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JAGDAMBA EDUCATION SOCIETY'S S.N.D. COLLEGE OF ENGINEERING AND RESEARCH CENTER .BABHULGAON, YEOLA.
Address	A/P - Babhulgaon, Tal - Yeola, Dist - Nashik, Pin - 423401.
City	Yeola
State	Maharashtra
Pin	423401
Website	www.sndcoe.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Pradeep M. Patil	02559-225011	9860305612	02559-225011	sndcoe.principal@gmail.com
IQAC / CIQA coordinator	S. P. Ahirrao	02559-225012	9284989741	02559-225012	drpmp66@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college		28-06-2006		
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Maharashtra	Savitribai Phule Pune University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	09-07-2021	12	For one Academic Year

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	A/P - Babhulgaon, Tal - Yeola, Dist - Nashik, Pin - 423401.	Rural	10	24705.23

2.2 ACADEMIC INFORMATION

NAAC

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC	English	60	19
UG	BE,Computer Engineering	48	HSC	English	60	60
UG	BE,Electrical Engineering	48	HSC	English	180	73
UG	BE,Information Technology	48	HSC	English	60	60
UG	BE,Mechanical Engineering	48	HSC	English	120	19
PG	ME,Civil Engineering	24	BE	English	24	23
PG	ME,Computer Engineering	24	BE	English	18	5
PG	ME,Electrical Engineering	24	BE	English	24	4
PG	ME,Mechanical Engineering	24	BE	English	18	2
PG	MBA,Management	24	Any Graduate	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	15				25				102			
Recruited	0	0	0	0	1	0	0	1	75	27	0	102
Yet to Recruit	15				24				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				14			
Recruited	0	0	0	0	0	0	0	0	14	0	0	14
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				70
Recruited	53	17	0	70
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				34
Recruited	20	14	0	34
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	1	0	0	11	1	0	13
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	77	27	0	104

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1274	0	0	0	1274
	Female	560	0	0	0	560
	Others	0	0	0	0	0
PG	Male	163	0	0	0	163
	Female	49	1	0	0	50
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	122	78	80	74
	Female	61	41	25	36
	Others	0	0	0	0
ST	Male	37	23	25	28
	Female	11	5	3	2
	Others	0	0	0	0
OBC	Male	348	296	394	519
	Female	155	156	163	184
	Others	0	0	0	0
General	Male	539	391	515	597
	Female	264	240	273	263
	Others	0	0	0	0
Others	Male	171	124	169	180
	Female	73	66	73	76
	Others	0	0	0	0
Total		1781	1420	1720	1959

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>In order to provide the holistic academic growth among students, Inter-disciplinary curriculum has been proposed which gives freedom to the student to choose their preferred options from the range of program offered by the institution. Due to high availability of infrastructure and staff, proposed interdisciplinary curriculum is not obstacle and thus creates no hurdles in implementing this freedom to students. This institution has already proposed and started creating enough infrastructures to allow such facilities. Setting of Multi-Disciplinary Education and Research system is the need to start up incubation center, technological development center, industry-academia linkages is the real analysis to attain quality education. The institution has already started entrepreneurship cell to improve entrepreneurship skill among students.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>The institution preparedness in implementation of Academic Bank of Credits depends upon the guidelines of the affiliated university and Higher Education Department, SPPU. For this purpose, a centralized database along with the database of the college is to be established to digitally store the academic credits earned by the student from various courses so that the credit earned by student previously could be forwarded when the student enters into the program again. For monitoring ABC, we are preparing proper technical support system.</p>
<p>3. Skill development:</p>	<p>The Institution is already conducting the skill courses as designed by affiliating university SPPU from Semester 3 to 8 in various programs. Also, under the employability of student in skill courses, the college has already been running courses such as Soft Skill & Personality Development, Full stack development program. Proper synergy is the need between skill development and industry and vocational education with mainstream education with earned credits in phased manner. For this, proper labs should be set up in the college and the said work has already started creating such lab structures in the college itself.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>In order to promote /integrate the local language, art and culture, compulsory activities in the curriculum has to be added like literary activities etc. and through discussions/interactions/symposiums etc. in local languages which will fetch extra credit to the student. These changes will also increase the</p>

	<p>employability opportunities for the teachers and subject matter experts of these languages. Frequent field trips to local heritage sites/museum shall value their culture and traditions. This will boost tourism sector in Maharashtra and Create awareness amongst students.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>LOCF (Learning Outcome based Curriculum) aims to bring about uniformity in syllabus for all programs in all, the affiliated colleges of University of SPPU. Variety of approaches in teaching Learning process like lectures, seminars, tutorials/workshop/practical and project based learning field work, technology enabled learning internship and apprenticeship and research work is suggested. The student learning outcome should be defined in terms of knowledge skills understanding values employability. This institution, being affiliated with concerned university follows the guidelines as and when directed.</p>
<p>6. Distance education/online education:</p>	<p>This institution is already prepared, especially during COVID-19 pandemic situations and teaching learning process through different online modes likewise zoom application, Moodle , What's App, Google Meet etc. the whole college campus is Wi-Fi enabled with digitally interactive panels installed in classrooms and hence no hindrance /obstacle in online education. Even slight relaxation in COVID-19 pandemic situation and accordingly visit of students and faculty members to college from different distant areas, helping them to study e-content for all subjects in all semesters. This institution is preparing to make available all such type of e-content material prepared by faculty members to all students through online mode to meet the future challenges. Also college has its official YouTube channel, on which all departments have uploaded their recorded video lectures.</p>

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
372	367	363	354	349
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	14	14	14	14

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1781	1420	1720	1959	2099
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
344	344	414	414	414

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
489	445	397	454	577

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
131	116	129	135	136

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
145	152	152	189	189

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 43

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
506.94	460.85	489.59	467.32	709.81

4.3

Number of Computers

Response: 618

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The institution meticulously plans for effective implementation of the curriculum. The detailed process is stated below:

I. Planning for the Term/Semester: The institute is affiliated to Savitribai Phule Pune University, (SPPU). Curriculum and academic calendar are designed and published by the Savitribai Phule Pune University, Pune which is followed by institute. Before commencement of each semester, Principal calls meeting with Heads of the Department, Dean Academics and finalize the academic calendar of the institute considering the institute events and following the SPPU academic calendar. Based on institute academic calendar each department prepares their departmental academic calendar that adds department level activities which consist of all technical, curricular, sports, co-curricular and extracurricular activities.

II. Allotment of subjects and Electives to be included in next semester and Preparation of Time table: Before the end of the current term, each faculty member submits their subject preferences to the Head of Department (HOD). The electives are finalised as per students choice. Load distribution is finalised as per their qualification, expertise and hence directed in advance for proper planning and preparation. The academic timetable is prepared and communicated to Dean Academics.

III. Execution by each faculty member and monitoring by academic Monitoring Committee: Once the subject is allotted, faculty members prepare course file as per the departmental academic calendar. Lab manuals are prepared for each practical subject by the respective subject in charge along with important oral questions. Academic calendar, department time table, individual time table, syllabus, teaching notes, CO/PO/PSO/PEO and their mappings, assignments, tutorial questions, ppt / hand-outs, class tests ,university question papers, MCQ's, e - contents for delivering online sessions and recording of practical demonstrations etc. are prepared by faculty members. The Academic Monitoring Committee member of department and Dean Academics of the institute monitors and evaluates the quality of teaching learning process periodically through strict devotion to planning and conduction. Observations and outcomes are communicated to course instructor for their improvement or for encouragement, corrective measures are taken, if required. Daily attendance is monitored by respective AMC member and defaulter students with poor attendance are identified. Parents of such students are informed by telephone. Individual progress of each student is discussed in tutor meeting.

IV. Continuous Internal Evaluation: Continuous assessment of laboratory work is done based on overall performance of student. The parameters used for assessment of assignment are well defined and documented. The continuous assessment of the seminar work and project work is also done and recorded in work-book. Students are made aware about the continuous assessment criteria well in advance.

V. Resource Planning: Instruments which require to be repaired or which are obsolete are identified.

Yearly budget is prepared based on consumables and non-consumable equipment and maintenance or new purchase demands are submitted to “Dean Admin” for further processing.

VI. Selection process of final year projects: Project coordinator is assigned to final year students who assigns project guides to these student groups as per area of specialisation of the faculty members. Students are motivated for sponsored industry projects to gain experiential learning.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

SND College of Engineering and research Center is affiliated to Savitribai Phule Pune University, Pune (SPPU) and thus follows the examination pattern of the University. The institute plans for effective implementation of curriculum given by the University and its detail process before commencement of the semester. The curriculum is prescribed by university and declares academic calendar every year which is made available to all faculty members. The academic calendar, activity calendar and class timetable of forth coming semester is prepared and conveyed to faculty members and students after approval from Dean Academics.

University evaluation reforms

- i) The Institute strictly adheres to the curriculum and academic calendar provided by the University.
- ii) The CEO and Examination Committee schedules and executes the evaluation process with strict monitoring on regular basis. Dean Academics takes follow-up of the progress in weekly HOD meetings.
- iii) Internal squad comprising of senior faculty members oversees the smooth conduction of university theory examinations.
- iv) The institute believes firmly in continuous evaluation of the students for their sustained performance. Hence a structured evaluation process has been designed and implemented.
- v) The in semester tests are planned and conducted as per the University examination norms.
- vi) The Institute conducts two unit tests, Preliminary Examination, Mock Online MCQ Tests and Mock PR/OR examination appropriately as per the requirement of the concerned syllabi of different classes.
- vii) Mock project demo is organized two times in each semester for students of final year course. In semester 1, work progress demo is based on literature survey and finding of problem statement. Demo 2 is based on technical parameters of the project.

viii) In 2nd semester, 3rd and 4th demo is based on requirements and successful implementation of the project. External examiners are appointed by the University for Final Examination to assess performance of the students.

Students are assessed on all possible platforms and the internal marks are given as per their performance in internal test, assignments, mock oral, mock practical, mock demo of project and their participation and achievements in each event in order to ensure justice with all students. This complete process of internal performance evaluation is used for faculty members to identify slow and advanced learners in their respective subjects. Counselling is done for slow learners and they are encouraged to improve their further performance. Counselling sessions found to be very useful to overcome personal issues, academic and non-academic problems.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 64

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
18	15	10	08	13

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 41.16

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1690	648	425	252	582

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

The Institute is affiliated to Savitribai Phule Pune University, Pune (SPPU).

The Curriculum Development and Design process is carried out by the affiliating university, based on the needs of the society.

Curriculum is revised at regular time intervals. The institute/department/BoS collects consistent feedback from all stakeholders, like parents, students, professional bodies, faculty members and recruiters.

The proposed suggestions are analysed and the recommendations are communicated to the affiliating University through Dean (Faculty of Science and Technology), Chairman and/or member of Board of Studies.

A present curriculum includes the topics such as environmental studies, safety, security, ethics, social awareness, humanity and social science, professional code of conduct.

To supplement the cross cutting issues such as Gender, Climate Change, Environment , sustainability, Human Rights, ICT, Human values, special efforts are put on various platforms and activities as Grievances Redressal Cell, Women Grievances Redressal Cell, Sexual Harassment Redressal Cell, SC/ST Support Cell, Anti-ragging Cell exists in the institution.

Active NSS Chapter and student association at each department regularly conduct various activities/programs like “World Women’s Day”, “Tree Plantation Program”, “Nirbhay Kanya Abhiyan”, “Yuva Saptaha”, “Mazi Vasundhara E-Pledge”, “World AIDS Day” and many more.

Rallies, street plays and many awareness programs are organized to educate people on various issues like Water Conservation, gender equality, and Road Safety, voting right awareness etc.

“National Voters Day” and Online Workshop on IT from Special IT person for each non-IT department for value addition of computer and IT Knowledge is evaluated.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 3.11

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	12	12	12

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 26.73

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 476

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 35.95

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
229	205	295	311	350

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
684	684	822	822	822

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 38.76

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
121	131	156	151	192

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

SND COE and RC has adopted strategy to identify the Advanced and Slow Learners as mentioned below.

- The actual classification of the enrolled students into slow and advanced learners is based on their performance in the internal examinations and a continuous assessment process.
- Uplifting in the performance of slow learners is being taken care till the course completion by the collective efforts of teaching faculty, course coordinator and Head of the department.
- Special remedial classes are arranged for the slow learners before or beyond the regular class schedule on specific days. For each course an individual attention is paid for improving the student level of learning through special assignments, problem solving, seminars and oral presentations.
- Slow learners are further assisted through individualized counselling by the class teacher/subject teacher/tutor in charges. Most of the student problems are resolved by these efforts.
- Slow learners are paired with advanced learners to enhance their learning abilities (Peer group learning). Peer group learning is always found to yield good results as all the members are benefited. The advanced learners will derive satisfaction and get motivated for further in depth learning while the slow learners get their doubts clarified with the understandable, hesitance-free academic discussions.
- As most of the student crowd belongs to rural background, soft and communication skills are given special emphasis to improve their skills and thereby bring them at par.
- For advanced learners the provision of additional courses like NPTEL, MOOCs, Programming Workshops, learning tools like PLC SCADA, Android Studio, PYTHON, MATLAB, PSPICE, Pro-E, ANSYS, Mastercam, AutoCAD are covered to improve student's knowledge.
- Special assignments are given to advanced learners. Also few application based mini project tasks are assigned to them. Advanced learners are motivated for participating in various technical supporting activities like paper/poster presentation, project competitions etc.

It is quite often noted that the slow and advanced learners become more motivated and start performing well in academics.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 14:1

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

All academic activities are aimed at elevating the student's knowledge, skills and build confidence in them. The teaching-learning process is one of the major objective and the strength of our institute. Experiential learning, participative learning and problem solving methodologies are well adopted to ensure the holistic development of students and facilitate life-long learning and knowledge management.

Experiential Learning

- Practical courses (laboratory) including virtual labs are used in the curriculum.
- Technical know-how regarding maintenance and repairing activities of various lab equipments are conducted as content beyond syllabus.
- Different learning methods like problem-based, case-based, project-based, inquiry based, computation-based, co-operative (work- or community-based) are implemented wherever feasible.
- Students are encouraged to take up innovative major and mini projects.
- Conducting investigations for solving complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Participative Learning

- **Design and Development of Solutions:** Students attempt to develop solutions for complex engineering problems and design system components/processes that meet the specified needs of real-time cases through group discussions, brain storming etc.
- **Mind Maps for creativity:** Teachers create a central node on a Mind Map and provide students the freedom to expand and develop novel ideas.
- Students are encouraged to take Massive Open Online Courses (MOOCs) offered by premier institutions which includes online lectures, demonstrations and interaction through ICT facility.
- Major projects involving latest technologies and use of advanced soft-wares (application and system) like STAAD-Pro, ETABs, Matlab, Ansys, Django, Eclips, Linux, Windows and Android Studio etc. are encouraged. With the help of these, different problems are investigated to a reasonable level by final year students under the supervision of project guides, within the constraints of time and resources in each department.
- Proficiency in soft and communication skills through lab sessions is also taken care.

Individual Learning

- Institute had encourage the students to actively participate in various competitions and hands on

workshops and trainings. All such events provides platform for the students to improve their skills.

- Institute also provides individual learning platform for students like E-Learning facility, NPTEL, SWAYAM, online certification programmes, online Spoken Tutorial projects etc.

Industry Interaction and Training

- Industrial/field visits, Practical training/internships at Industry are mandatory at present.
- Industry projects and collaborations are undertaken to enrich students with pre-employment training.
- Periodical guest lectures on topics relevant to employment skills by personnel from renowned organizations/industries.

Innovative Pedagogy Practice

Institute promotes participative learning through innovative pedagogy practices such as group discussions, Debate Competition, quizzes, role-play, fun game, learning through art (Rangoli/Poster) etc. during teaching learning process and through department activities.

MoUs with Industries

Institute has tie-up and signed active MoUs with various industries. Students are able to understand what actual processes are carried out in industries. Also training programmes have been arranged resulting in enrichment of faculty members and students.

NSS field work Activity

NSS unit of the institute supports to conduct various activities like tree plantation, blood donations, voting right awareness, road safety, fire safety awareness programs, save water save life, save girl child etc.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

- ICT enabled Teaching-Learning Process is supported with Regular Practical Sessions, access to Digital Library, Online Courses (MOOCS, NPTEL etc.), online journals, and online tests.
- Use of LCD projectors for regular lectures, seminars, workshops, educational videos and accessibility of e-books, CDs etc.
- Communication skills training facility is enriched with ICT tools to acquire proficiency in listening, speaking, reading and writing skills.
- ICT components are embedded in the course contents of all relevant engineering disciplines which

includes free/commercial software(s) used for computation/simulation such as use of MATLAB for solving linear or differential equations and statistical analysis of experimental results in project works.

- ICT for course delivery includes power point presentations, video conferencing, use of educational material from renowned institutes/universities.
- As an LMS, MOODLE is recommended for effective teaching learning process and resource management. It also enables monitoring of student's learning progress through online quizzes, submission of online assignments etc. It helps our students in blended learning, flipped classroom and e-learning projects.
- Central library of the institute is ICT enabled with multimedia PCs, internet connectivity, e-Books, e-Journals, audio-visual facility.
- Innovative pedagogy practices like Power Point Presentations/Google Slides, animations, info graphics and videos; you tube channels by faculty members for delivery of course content using Digital Classroom enabled ICT tools.
- Video recordings containing demonstration of the laboratory experiments are made available to the students through YouTube play store facility.
- The institute conducts online Multiple Choice Question (MCQ) based tests through Google forms for conduction of internal assessment.
- Invited expert talks, guest lectures, training programs, seminars, and webinars are conducted regularly using ICT facilities like Google meet, Zoom, Microsoft team, Skype etc.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 22:1

2.3.3.1 Number of mentors

Response: 82

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 78.98

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 3.58

2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
07	05	04	04	03

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 5.08

2.4.3.1 Total experience of full-time teachers

Response: 665.7

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Mechanism of Internal assessment is transparent and robust for continuous evaluation of laboratory courses, term works, seminars, projects at institute level. At the very first session, each student is made aware about the evaluation process through their course coordinator so that students should be aware of the process beforehand. Also the guidelines for project and seminar are provided to the students in advance. Marks of continuous evaluation for individual practical are entered in presence of student and the overall marks in term work, class tests, preliminary examination and in semester university examination marks are displayed on noticeboard for information of the student.

Laboratory work/term work Assessment:

Continuous assessment of each Laboratory term work head is carried out and known to the student. The laboratory term work evaluation is based on

- Attendance of student
- Performance of Practical
- Completion of Journal within time
- Internal viva-voce on each experiment.

The Marks are awarded to the laboratory assignment accordingly and final term work marks are calculated by considering the laboratory performance as a major share.

- For each term work course of first year to third year, internal examiner evaluate final marks and are displayed at the end of each semester for student information.
- For each term work course of final year student, one internal examiner and one external examiner appointed by university evaluate final marks.
- For each practical course, one internal examiner and one external examiner appointed by university evaluate final marks.

Assessment of seminar and project work:

For seminar and the final year project work, the guides are appointed and they provide guidance to the student for completion of the seminar/project. Following guidelines are referred for awarding marks for seminar and project work.

- Selection of topic in allotted time: 15 marks

- Literature on Topic: 05 marks
- Presentation: 10 marks
- Question Answer: 10 marks
- Report: 10 marks

Seminar work of pre-final year student needs to carry out thorough literature survey and seek approval from the seminar guide. The student is supposed to meet the guide every fortnight to discuss the progress of the work and documentation.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

University Level Examination:

Examination Cell ensures that numerous internal and external examinations run smoothly. The Examination Cell's committee is in charge of dealing with and resolving issues/grievances relating to internal and external examinations.

When dealing with difficulties or grievances, the Cell is transparent, and the majority of the grievances are addressed and resolved in a timely manner.

Offline Examination:

External (University) offline examination grievances are handled by the examination department, which is overseen by the Examination Committee, according to the SPPU's procedure. To increase transparency in external examination-related grievances, a separate large-scale notice is posted at the examination section, including general instructions and procedures for grievance resolution, and departments are kept updated on the status of the issues. Examination section of the Institute settles grievances and issues concerned with examinations, assessments, and certificates. Such circumstance is communicated to the University for necessary action with the student application and necessary documentation. These complaints have been followed up on in a timely manner.

The procedure for resolving grievances related to the external examination is as follows.

- Notices for filling out photocopy, verification and revaluation forms are displayed in the institute examination section and also at the department, along with information of the necessary fees and the deadline for submission.
- Request for a photocopy of the assessed answer sheets.

- Application for re-totalling and re-evaluation.
- University examination section makes a decision of various grievances and acts accordingly.
- Institute examination section collects the old mark sheet from the student in case of change in marks and sends it to University examination section. The revised copy of mark sheet received from the University is distributed to the concerned student.

Online Examination:

If a student finds any inconsistencies in a question during an online examination, he or she has the option of marking that question as invalid. The University appoints a committee of topic specialists to evaluate the queries relating to the invalid questions. If the accusation is proven to be true, the committee decides whether or not to assign suitable grades to the student involved.

Institute Level Examination:

Unit test examinations, preliminary examinations are conducted by the institute, and the answer sheets from these internal examinations are accessed by the concerned course instructor. Accessed answer sheets are distributed in the class. The subject teacher discuss the expected answers along with the distributed marking scheme, if any anomalies are observed in the evaluation process, the student is free to discuss it and get it corrected.

Term-work Evaluation:

Continuous assessment of each Laboratory term work head is carried out and known to the student. The laboratory term work evaluation is based on

- Attendance of student
- Performance of Practical
- Completion of Journal within time
- Internal viva-voce on each experiment.

The Marks are awarded to the laboratory assignment accordingly and students are free to discuss if any grievance is identified at the time of journal checking. Further if the grievance is not resolved by the course teacher, the student can approach to departmental academic coordinator, Head of Department and Dean (Academics) resolves the grievance.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

While addressing the students, the Head of Department creates awareness on POs and COs provided by the University to each course. The faculty members, class teachers, mentors/tutors, course coordinators inform the students and create awareness and emphasize the need to attain the outcomes. Program specific outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at micro level till end of the program.

All the POs, COs and PSOs are displayed on the University and Institute website. Also PSOs are displayed at HOD cabin which are available for students and staff.

COs/POs are displayed at respective laboratories and explained their mappings to the students at the time of conduction of experiments and delivery of theory course.

PSOs along with Vision and Mission statement of the department are printed on the certificate of the journal.

The COs, POs and PSOs are included in every course file prepared by individual teacher with mappings.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Each course has a defined set of course outcomes and program outcomes by the university. The course outcomes are mapped to the program outcomes which are used to provide the quantitative measurement of how well the program outcomes are achieved. The performance of the students in the examinations during the semester in each course is used to compute the level of attainment of the POs and PSOs through the mapping of questions to COs and COs to POs and PSOs. CO-PO & PSO mapping for all the courses in the program is prepared by the concerned subject teacher in consultation with other senior faculty members, Head of Department and Dean (Academics).

CO Attainment:

Assessment methods include direct and indirect methods. The process of course outcome assessment by direct method is based on Unit Tests, In Semester, preliminary examination and end semester examination. Each question in all the examinations are tagged to the corresponding COs and the overall attainment of that CO is based on average mark set as target for final attainment except the end semester University

examination.

- In-Semester Examinations are conducted in a semester by university and each of them covers the evaluation of the entire relevant COs attainment.
- Semester End Examination is descriptive, and a metric for assessing whether the entire COs are attained. The indirect assessment is done through the course end survey.

PO and PSO Attainment:

After completion of the course by the students, end survey/Student Satisfaction Survey is carried out by the individual department and PO and PSO attainments are computed.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 86.3

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
547	504	466	533	653

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
567	530	596	683	780

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process	
Response:	
File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 2

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	01	01

File Description

Document

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 2.29

3.1.2.1 Number of teachers recognized as research guides

Response: 03

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 3.23

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	01	01

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	14	14	14

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

SND COE and RC gives support to students and staff for research activities. Every Faculty member is involved in various academic, administrative and other statutory and non-statutory committees. Regular training programs are provided to the faculty members to enrich their knowledge and the same is percolated to students. The Institute committees are led by senior faculty members and supported by the second-line leaders among the faculty members. Special expert talks of industry expert, alumni, and entrepreneurs are conducted for students for developing their skills. The management of the Institute creates an atmosphere of security, trust and expertise to facilitate the creative process and ensure that it does not go off. They encourage moving individuals and teams from creativity to innovation. It is ensured that the process of creativity results in concrete proposals, ideas and prototypes that will enhance the organization development. Discussions are held by the management team with the heads of departments to know how to take innovation, ideas or agenda from faculty members and turn them into realities. Students & staff are informed about various equipments available in institution & encouraged them to use. For enhancement of student knowledge beyond syllabus content is also considered in regular curriculum.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 13

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
09	01	01	02	00

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 2.33

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 07

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 03

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.92

3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
41	15	26	27	10

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.04

3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	01	01	01

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

SND COE and RC have a National Service Scheme (NSS) unit which is sanctioned by the affiliated University, Savitribai Phule Pune University with a sanctioned strength of 50 students. The objective of affiliated University is to sanction the NSS unit and provide financial support for National Service Scheme (NSS) so as to give an extension dimension to the higher education system and orient the student youth to community service while they are studying in an educational institution.

It helps to understand the problems of the community, to take the part in social activities, and interact with society. Every year the NSS camp is organized for the duration of 7 days in a rural area, which is monitored by the University coordinator. The separate budget is sanctioned by the Institute for the NSS camp and regular activities. The NSS coordinator who has got the approval from the University has to submit the detailed annual report and Audit report to the University for continuation of the NSS unit.

The NSS unit at our institute is vibrant and the NSS members voluntarily participate in various social activities such as tree plantation, blood donation, village cleaning, creating awareness among the villagers and slum dwellers about digital/online transaction and various government schemes, women empowerment, security and safety measures, health and sanitary awareness, voting right awareness program, Covid 19 vaccination camp and traffic rule awareness program etc.

It is felt that NSS members interacts with the common villagers and slum dwellers so as to expose them to the realities of life and bring about a change in their social perceptiveness. The various camps have a very good impact on the entire development of students. Students also reported that there was a really great improvement in their social life. Working in NSS camps has furnished the life of students and they are getting good help during their working culture too.

The students have contributed to various social and environmental problems that they have come across, the strategic theory implemented has benefitted the students as well as the people of the society to a very larger scale.

Planting of trees, cleaning of various social places, spreading awareness to people about the importance of the environment and its conservation are the key activities conducted every year by the NSS unit. Computer literacy awareness is done in rural areas.

Entirely the students have been benefited in their overall development and it is impacting their social as well as economical life.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 1

3.4.2.1 Total number of awards and recognition received for extension activities from Government/

Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	01	00	00

File Description	Document
Number of awards for extension activities in last 5 year	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 32

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
08	05	07	06	06

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 12.93

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
87	210	120	110	680

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 2

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
02	00	00	00	00

File Description	Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 20

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
09	03	00	00	08

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The Institute has a policy for creation and enhancement of infrastructure in order to promote a good teaching learning environment. The College encompasses a well maintained lush green campus spread over 10 acres of land ensuring adequate availability and optimal utilization of physical infrastructure for teaching learning activities as per AICTE norms.

Classrooms:

- College encompasses sufficient number of well-furnished, well ventilated, spacious classrooms equipped with LCD projectors for conducting theory classes.

Technology Enabled learning facility:

- The College has ICT Classrooms where the provision of Multimedia learning, Wi-Fi connectivity and internet access is provided.

Seminar Hall:

- The College has seminar hall for each program. These halls are regularly used for conducting national/international seminars/workshops at the institute. The students are motivated for active involvement in paper presentations, group discussions etc.

Tutorial rooms:

- Separate tutorial rooms are there in the college campus for tutorial lecture, doubt clarification and special remedial classes for weak and needy students.

Laboratories:

- All laboratories are well equipped with state-of-the-art equipment and facilities. All the laboratories are established as per AICTE norms. These labs are utilized for conducting practical classes as per the requirements of the curriculum. Labs are also utilized for technology learning & training as part of teaching contents beyond the syllabus. Labs have sufficient licenced software and open source tools to cater the requirements of curriculum & industry enabled teaching. SOPs are made available in almost all the laboratories.

Language Laboratory:

- Language Laboratory is available with adequate facility.

Computing Equipments

- Adequate number of servers, computers, printers and scanners are available in the institute.

Wi-Fi:

- The entire campus is Wi-Fi enabled with 24/7 internet facility to the students and staff.

Available band width:

- 50 mbps.
- Internet facility is available in whole campus including labs, classrooms, library, and offices of all departments.

Central Library:

- Our central library is fully computerized by automating the issue of books with bar code reader. The library has 4619 titles and 20151 volumes covering all major fields of Science and Engineering. The library has sufficient stack area with reading room with an ample study space. The central library is well ventilated. Resources are available for self-learning at Central library.
- Digital library facility is available with sufficient number of E-Journals , E-Books, CDs etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

Cultural:

- College has amphitheatre of area 974.89 Sq. Mtr. for celebration of cultural activities, nine seminar halls each of them have area of 135.83 Sq. Mtr. where students can celebrate different events. Every year annual social Gathering “**Kshitij**” is organised in the college premises in which all the students participate enthusiastically and bring glory to the program.

Sports:

- College has playground for outdoor games for playing cricket, Basket Ball, football, kabbadi, Kho-Kho etc. There is separate court yard for volleyball and badminton. Also college has indoor game hall which includes Table Tennis, Chess, Carrom.

Yoga:

- Yoga helps to instil confidence and to bring learning to students and staff on an experiential level. Yoga teaches them to persevere, be patient, and work towards their goals. Yoga also provides tools for practicing compassion, mindfulness, generosity, focus, strength, and flexibility. By changing our lifestyle and creating consciousness, it can help in well-being. So we work towards adopting an International Yoga day on 21st June. College invites Yoga Expert to guide the importance of 'Yoga' to students and staff on same day.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 37.21

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 16

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 55.61

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
279.16	253.78	285.5	303.83	316.38

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

In keeping with the vision and mission of the institute, the library has been established “to facilitate knowledge generation and its application through effective dissemination”.

Central library was started in 2006. The main objective of central library is to provide seamless access to information to its users in a networked environment and to become a premier Learning Resource Centre in Engineering, Science & Technology and related areas. The major library resources are available at the Central Library. The Central Library has rich collection of Text Books, Reference Books, and Handbooks in a form of hard copies, CDs and e-books. Library has a Software which is partially automated with Barcode System. Student can search the books through Web-OPAC. The library has covering an area of 762 Sq. Mtr. The Institute has a Membership of National Digital Library of India (NDLI), which provides the online access to various learning resources such as audio-visual and text resources. The Library has subscribed 80 Print Journals. In addition to this the Institute has subscribed for DELNET which provides access to 10839 free E-books in 709 categories and 860 e-journals for Engineering and Technology. Library has a special service (Book Bank Scheme) for SC/ST Category Students.

The Central Library has a separate Digital Library equipped with 20 nos. of computers with internet facility. For the smooth functioning of Library & for the ease of the students a computer interface has been provided. It is equipped with NPTELs audio-video lectures, CDs, e-journals, e-books etc. of engineering and management courses.

The Central Library has a provision of spacious reading room with seating capacity of 150 students.

Following are the objectives of the Library:

1. To support the teaching learning process.
2. To meet the information need of students & faculty members.
3. To upgrade the collection of reading material in hard copy and soft copy.
4. To Provide UPSC, MPSC and competitive examination materials and useful guides.

Library collection:

Library has diverse collection of books, journals etc.

- There are 4619 Titles & 20151 Volumes available in the library for the reference of students and staff members.
- In addition to this, 1268 books are available in the library under the Book Bank Scheme for SC/ST students.
- The open access system in library enables the students to issue books.

Library Services:

Home Lending of Books, Reference Services, Reprography, Download, Printing, User Orientation and Awareness, Question Papers, Reading Hall etc. are the services available in library.

Timings: During Working day, Weekend and Vacation.

Day	Timings
Working Days	09:30 am to 05:30 pm.
Examination Days	09:30 am to 07:00 pm.
Vacation	10:00 am to 05:00 pm.

All the Students, Faculty Members and employees of the institute are entitled for the membership of Library. Books are issued to Students and staff as per Library Rules given Below:-

Sr. No.	Category	No. of Books	Loan Period
01	Faculty	08	One Semester
02	Lab Assistant	03	One Semester
03	UG Students (FE, SE, TE, BE)	02	Seven Days
04	PG Students (ME, MBA)	03	Fifteen Days
05	SC/ST Students (Book Bank Scheme)	Set of 5 Books	One Semester

The Library follows open access system encouraging the user to browse freely in the stack area, it is partially automated using OPAC (Online Public Access Catalogue) is placed in the user area for the library users to access OPAC;

- Name of Software: - e-library Management System
- Type of Automation:-Partially
- Version:-2.0
- Year of Implementation:-2011
- Type of Scanner: - Bar Code Scanning

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 6

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
2.76	0.135	0.135	15.48	11.50

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 6.33

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 121

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

IT facilities have been updated on regular basis.

In 2019-20, 60 Lenovo desktop (with i5, 8GB RAM, 1 TB HDD) was purchased to upgrade the computer labs. These labs are being used for Data Science Lab/Project Work. In addition to this 240 new desktop computers (i5, 10thGeneration, 8GB) were purchased to upgrade existing computer laboratories. Overall in every year, our computer laboratories were upgraded. The institute has always given priority for up-gradation of IT facilities:

Internet Connection:

- The institute regularly updates the internet connection every year and as of now, the available internet bandwidth is 50 Mbps provided by Meera Network that is latest renewed in 2020.
- Second wireless backup line by Meera Network is provided with bandwidth of 40 Mbps.

No. of Systems and their Configuration:

- Institute having a total of 618 computers with the following configuration:
 - Processor i5, i7, 4 GB RAM, 500 GB Hard Disk.

Firewall/Security:

- Institute uses firewall service from UNTANGLE NXG16.

Networking Peripherals:

Institute has networking devices i.e. IBM Servers, Routers provided by D-Link, Cisco Gigabit Ethernet switches etc.

Software's:

- Institute has various software's needed for academic purposes which includes Oracle, Java, Mysql, C, C++, Python, Flash Pro, MATLAB, Microwind, NetSim, IE3D, Xilinx ISE, AutoCAD, Ansys,

Mastercam, Pro-E, and apart from basic software like Office, Tally, etc.

Licensed version of OS:

- The institute has license copies of Windows Operating System and also works with open-source operating systems like Ubuntu, Linux OS and other software tools such as Postgres, Cisco packet tracer, ns2, Wireshark, Python, CLDC wireless toolkit, open GL, Spark, Hadoop.

I/O Devices:

- The institute purchases Projectors, Printers, Photo Copying Machines, and Plotters as per the requirements given by the departments.

Video Lecture Making Facility:

- The institute has a well-equipped Computer lab where faculty members can prepare their video lectures. This has been very useful during the phases of pandemic.

Upgrading Policy:

- Computers in the institutes are upgraded every year by replacing certain old machines with the new ones.

Certain measures have been taken during the year 2020-21, due to pandemic for ensuring best teaching practices for students. Below is the list of features:

Virtual Labs:

- Few practicals are being conducted using virtual labs developed by IITs.

Online Lectures:

- The institute has conducted lectures by using various platforms like Zoom, Webex, MS-Teams, Google Meet etc.

Purchase/Requirements:

We are following standard procedures to purchase required Equipments/Devices:

1. Every department having separate requirement book, every department use the same to demand new purchasing with duly signed by Laboratory In charge, HoD and Principal. Further it is submitted to central store In charge of central purchase department.
2. Concern authority from central purchase department contacts at least 03 vendors and collect quotations to prepare comparative statement.
3. The purchase order is issued to particular vendor whose quotation is found better.
4. After receiving material from vendor (by the central store in charge) as per purchase order, store in charge hand over the same to concerned department with copy of bill.
5. At the department level, entry of new purchasing is done on main dead-stock of the department and

finally install the new equipment/computers/devices in particular laboratory. Also the entries are updated on laboratory dead-stock register.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 3:1

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 44.42

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
227.77	207.06	204.86	163.49	393.43

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Maintenance of Physical & Support Facilities:

Civil infrastructure:

- General civil maintenance and upkeep of civil infrastructure is carried out by the 'Civil Maintenance Department' at Society level.
- The maintenance of lift is under AMC. The workshop department helps in executing minor repairs.

Electrical Maintenance:

- Electrical maintenance is done with the help of 'electricians' appointed by institute and major work is outsourced to local skilled agencies.

Water supply:

- A separate RO is installed at College to insure clean and healthy potable water. RO in charge is appointed by institute for look towards its working. The water is distributed through coolers as well as taps. The quality of drinking water is maintained and recorded daily. Required plumbing work in the campus is done in-house. Maintenance of RO is done by external agency through AMC.

Garden and landscape:

- A special person is appointed by Society for maintenance of garden. He along with his team entrusted for maintenance of lawns, shrubs, trees and plants. Sufficient trees are planted regularly and have covered maximum area.

Housekeeping:

- The house keeping is outsourced to external agency by awarding annual contract including the sanitary materials and takes care of cleaning of all the utilities.

Maintenance of student records and documents:

- The documents pertaining to student section, accounts and administrative importance are preserved by stacking them properly in a separate room. Other documents and stationery are preserved for five years and then shredded and disposed.

Maintenance of Academic Facilities:

Laboratory:

- Record of maintenance account is maintained by lab technicians, Lab In charge and supervised by HODs of the concerned departments.
- Maintenance of laboratories are as follows: - The calibration, repairing and maintenance of sophisticated lab equipment's are done by the technicians of related owner enterprises.

Library:

- The requirement and list of books is taken from the concerned departments and HOD's are involved in the process. The finalized list of required books is duly approved and signed by the Principal.
- Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment.
- To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam.
- Other issues such as weeding out of old titles, schedule of issue/return of books etc. are chalked out / resolved by the library committee

Sports:

- Regarding the maintenance of sports equipment the college sports in charge is deputed.

Computers:

- Each Department having appropriate computer for their requirements.
- Internet and WIFI Enabled campus.
- Open access journals facilities are available.

Classrooms:

- The college has various committees for maintenance and upkeep of infrastructure. At the departmental level, HODs submit their requirements to the Principal regarding classroom furniture and other.
- Administrative officers will take in charge for student's academic requirements.

Procedures for maintaining computers:

- Centralized computer center for maintenance & repairing.
- Each Department having appropriate computer for their requirements.
- Internet and WIFI Enabled campus.
- Open access journals facilities are available.

Detail Procedure:

The institute has established systems for maintaining and utilizing the physical and support facilities. Maintenance is carried out throughout the year and as and when required. Institute has appointed external agencies and also having central maintenance department for maintenance of equipment and other facilities of computer systems, some of them are maintained through an annual maintenance contract.

To maintain internet connectivity and CCTV security system, Institute has a team working under the network and system administrator. For other repairs and maintenance, there is a set procedure that is followed by the institute. The request for repairs and maintenance is entered in a register at the Institute level which is then discussed by the administrative staff with the HOD and the Principal. Minor repairs of the equipment, computers etc. are done in-house by the technical staff. For maintenance by an external agency, quotations are called from multiple vendors and finalized by the central purchase department. The purchase requisitions are raised by the departments followed by purchase orders, invoice preparations etc.

Maintenance of different facilities:

Vehicles and transportation:

- Transportation services ambulance is looked after by Society Office. Transport in-charge and his team take care of maintenance and repair. Transportation facility is provided to students commuting from nearby places and to the staff for official work. The ambulance is available on 24X7 basis.

Safety and security:

- Fire fighting system is provided to counter situations like fire hazard and natural calamities. Fire extinguishers are provided in required locations. The fire extinguishers are refilled timely. The security persons and TA have been trained to handle the fire hazards.

Network system:

The Institute has a team of qualified people under the network administrator for maintaining computer systems, software, licenses, etc. and networking facilities like WI-FI & LAN.

Utilization of facilities:

Lab assistants under the supervision of the System administrator maintain the efficiency of the college computers and accessories. Every department maintains a stock register for the available equipment. Proper inspection is done and verification of stock takes place at the end of every year. Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the Administrative office.

Thus, a smooth, systematic and orderly learning environment is ensured with maintaining & utilizing the physical, academic and support facilities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 81.31

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
1488	1170	1384	1555	1695

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 10.95

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
135	1	0	16	971

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 4.74

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
83	85	98	107	40

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 41.28

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
259	195	151	196	164

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 15.54

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 76

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 3.47

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	2	2

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
26	22	28	32	18

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 0

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

Students are given exposure to involve in administrative, co-curricular and extracurricular activities by including them as members of the committees. They actively participate in committee meetings.

The following is the list of Committees having student representation and engagement

1. Class committee: This Committee is formed to ensure that all curricular and co-/ extra-curricular activities of the class are carried out smoothly. Class teacher appoints a Class Representative from the students. He/She is representing whole class for any activity, if required he/she forms a committee with the help of staff co-ordinator for carrying out activities.

2. Department Association Committee: In each department of the institute "student's associations" are formed. They are "association of the students, by the students, for the students". The curricular and extracurricular activities are carried out under student's associations.

3. Sports Committee: This Committee organizes interdepartmental sport event. Our students actively participate in various sports in intercollegiate. During our annual cultural fest "KSHITIJ", this committee organizes all the sports activity.

4. Cultural Committee: This committee co-ordinates various cultural activities and events throughout the

year. “KSHITIJ”, a annual cultural event of our institute provides platform to the students to organize and participate activities through various event committees under KSHITIJ.

5. Internal Quality Assurance Cell (IQAC): The student representative is involved in IQAC. The student representative can present his/her ideas and put up suggestions in regular meeting of IQAC. Thus, he/she is also active member in policy making process of IQAC.

6. Anti-Ragging Committee: This committee ensures zero ragging incidents in the institute and also spreads awareness among students against any type of ragging activities.

7. Anti-Sexual Harassment Committee: This Committee is responsible for investigating every formal written complaint of sexual harassment and taking appropriate remedial measures to respond to any substantiated allegations of sexual harassment.

8. Grievance Redressal Committee: This committee addresses student grievances and maintains harmony and discipline among the students.

File Description	Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 18

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
17	18	18	18	19

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

YES, we have registered Alumni Association which is formed in 2020-21. Alumni are one of the main stakeholders of the institute as they contribute immensely to the development of the institute in multiple dimensions. Alumni of the institute are providing mentoring services to institute this became influential in making the students understand the industry institute gap and also the way to plan and shapeup their career in right direction and making the students to understand various business opportunities and providing all the support required for preparing the students to become industry ready or to make as entrepreneurs by knowing the current dynamics of the industry.

The institute is conducting many alumni based events like online virtual meets, Reunions Mentoring sessions, Guest lectures and knowledge sharing sessions, during the events, the Alumni are sharing their success stories to the ongoing students. Alumni could bring the need for tool-based learning, conducting project-based labs and hackathons. Alumni have deliberated on concentrating on industry-based research projects and undertaking consultancy based on the expertise of the faculty and the kind of research labs supported by the department. Alumni are helping to develop quality standards that could be used for enhancing and raising high quality of delivery of educational system.

Vision

The vision of the S.N.D College of Engineering & research Center Alumni Association is to reach, engage and serve all alumni and present students by networking with one another to foster a life-long intellectual and emotional connection between the college and its alumni.

Mission

This Alumni Association is aims to provide a common platform for all Alumni of this institution, the objectives of associations are

1. ???????????? ?? ?????????? ??? ?????????????? ?????? ?????????????????? ??????? ?????????????????????? ??????? ?????????????????????????????????????? ??????? ????.
2. ?????? ?????????????? ?????????? ?????????????? ??????? ?????????? ????.
3. ?????? ?????????????? ?????????? ?????????? ??????? ?????????????????? ???????.
4. ?????????????????????? ??????? ?????????????? ?????????? ???? ?????????? ???? ?????????? ?????????????? ??????.
5. ?????? ?????? ?????????????? ?????????? ?????? ????.
6. ?? ??? ?????????????? ?????????????? ?????????????? ????.
7. ???? ?????????? ???? ?????????????????????? ?????????? ? ??????? ?????????? ?????????? ????.

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

SND College of Engineering and Research Center is governed by Jagadamba Education Society. Members of the Board of the Governors of the College have been constituted as per the guidelines of AICTE, and meets once every six months. BoG members always encourage the efforts of the college team taken in maintaining quality standards as well as provide guidance to different stakeholders for creating versatile engineers ready to serve the society.

The college has an academic council with principal as chairman, deans, HoDs and registrar. Dean-Administration as member taking care of all administrative issues. The meetings are held every two months. To ensure the quality and imbibe the culture of excellence,

The College Development Committee discusses the progress and plan and takes the appropriate decisions and prepares the resolutions in a tune with the vision and mission of the institute. As per the suggestions of the college development committee and the governing body, the principal prepares the comprehensive implementation plan for execution. The implementation plan includes infrastructure and facilities development, procuring learning resources, appointment and training of human resources, conduction of the academic activities, co-curricular and extracurricular activities, and training and placement of students. IQAC has developed the strategic plan aligning with vision and mission of the institute. Faculty opinions and participation is given due weightage by their participation in various committees like Anti-ragging, Research, Examination, Placement, Internal Complaint Committee (ICC).

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The management of SND COE and RC has a participative management system with collective decision-making involving Principal, Deans, HODs, incharge -(Exam, Training and Placement Officer, Academic Monitoring (Dean Academics) , academic coordinators , Tutors (Mentors) , Class teachers and Registrar.

The Institute has developed a well-defined decentralized system to follow the university guidelines for conducting the Internal Assessments as well as end-Semester Examinations.

In-charge of the Examination Cell under the advice of the Principal executes the process in close liaison with the Controller of Examinations of SPPUas well as disseminate the instructions to the HoDs and Departmental Exam Coordinators.

Semester-wise and Department-wise Students' Enrolments, Marks uploading Internal Assessments (Theory and Practical) and end Semester Practical, Examination Form fill-up (Regular and Backlog), Scrutiny and Review process are carried out by the Departmental Exam Coordinators under the advice of HoDs and COE of the Institute.

Internal Assessment marks are scrutinized by Departmental Marks Moderating Committee headed by the HoDs and being endorsed the marks are uploaded by individual subject teacher tagged by the university.

Academic Decentralization:

There are different committees with well-defined functions that give academic and administrative leadership to the institution. A committee comprising of administrative staff and faculty members. Committee is responsible for holistic development of the college and to recommend on the enhancement of student facilities, students' life and experiences at the Institute. Its responsibilities are

- Prepare the Academic Calendar before starting of the semester with the approval of the Principal.
- Load Distribution and Time table preparation
- Track the Syllabus completion of Theory/Lab for all the departments.
- To exercise general supervision over the academic work of the institution and to give direction regarding methods of instruction, evaluation, and improvements in academic standards.
- To make arrangements for the conduct of examinations in conformity with the University directives from time to time.
- To maintain proper standards of academic records. Namely handbook, course file content as per the university requirements / regularity authority etc.
- To take active measures for improvement of standards of teaching, research and training.
- To consider the recommendations of the sub-committees and discuss the issues/ developments at least once in a month.
- To discuss and review the co/extracurricular activities of the college
- Maintaining discipline in the campus.
- Maintain the Minutes of the Meeting.
- Organizing Conferences/ Workshops.

Anti-Ragging, Grievance Redressal and Discipline Committees take care of healthy, enjoyable and

disciplined culture in the institute. It comprise of the Principal, HODs, Senior Faculty members and student representatives.

Various academic committees like library committee, Time table committee Attendance Monitoring Committee take care of day-to-day academic functioning of the Institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The perspective plan implemented strategically since establishment of institute. Progressively, the infrastructure has been expanded, the academic expansion has been done, extension services have been run, the resources have been procured, and practices have been standardized, human resources have been recruited, trained, and nurtured targeting the Vision of the institute with the learner-centric approach.

Institute has concurred a few milestones in its journey since inception. One of the activities successfully implemented based on the strategic plan is 'The Academic' which includes qualification and competence improvement of the faculty and enhancement in teaching-learning environment that in turn enriches the learners.

SND COE and RC have set their priorities as being a prime aide in employment generation for their students. To achieve this Institute has strong and efficient placement cell.

Institutional Strategic Goals

- Efficient Teaching erudition procedure
- Effective Leadership and Participative management
- Constant Internal Quality Assurance System
- Ensuring effective governance
- Student's Overall Development through Participation
- Employees Advancement & Welfare
- Faculty members participation in FDP

- Escalating Placements
- Women/Student/Faculty Grievance
- Financial Planning & Management
- Institute – Industry Interaction
- Encouragement of Budding Entrepreneurs
- Constant Growth in Research and Development
- Boosting Internal Revenue Generation
- Alumni Interaction and Outreach activities
- Mounting Physical Infrastructure

During the pandemic period and even their after faculty members has participated in various online Faculty development programs to enrich the knowledge.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

The institute has a vision to create versatile engineers ready to serve the nation and the world. The leadership of SND COE and RC is through participative management all the way through structured organizational system with the involvement of all the Stakeholders.

The key components of organizational structure of the SND COE and RC are Governing Body ,Principal, Heads of the Departments, Teaching staff, Non teaching staff and Departments. It reviews the institutional strategic plan which in turn sets the academic aims and objectives of the institution and identifies the financial and recruitment strategies. The organizational structure lends itself to sustaining institutional capacity and educational effectiveness through the involvement of external member in various Committees/ Boards. Various stakeholders of the institute are members of different committees constituted by the institution. The decision-making procedures are made at appropriate levels in the organizational hierarchy.

As per the university/ government guidelines, IQAC Cell, Anti-ragging Ce etc. are also in place for the institution. There are various committees with well-defined functions that give academic and administrative leadership to the institution.

Governing Body (GB)

The Governing Body is responsible for formulating the policies of the institution, providing the right direction for 360 degree development of the institute, and ensures the proper governance periodically. It chalks out a roadmap in order to achieve the goals of the Institution from time to time.

College Development Committee (CDC)

The College Development Committee looks after the overall functioning, monitoring the processes & progress, and recommending the necessary guidelines for the overall development of the institute. The College Development Committee is formed as per section 97 of the Maharashtra Public Universities Act, 2016.

Administrative Set-Up:

The Secretary and the Principal are the key person of the administration with the former being the final authority in all financial matters.

Service rules and procedures:

Employee Service rules and procedures are guided by the SPPU Pune University First Statutes (latest edition), the Constitution of the college and the rules of the State Government as amended from time to time in this regard. The recruitment rules for the teaching staff are as prescribed by the UGC and the Eligibility as per AICTE. The promotional policies for the employees are according to the affiliated University, Savitribai Phule Pune University. Employee service book is maintained at institute.

Grievance Redressal Mechanisms:

There are several Grievance Redressal Mechanisms including the Anti-Sexual Harassment Cell with its Redressal Committee, the Anti-Ragging Cell, a Grievance Redressal Cell with complaint boxes prominently placed, and the full implementation of the Right to Information. The grievances regarding the Internal and External examinations are also resolved by the Examination Committee. Along with this Student feedback is taken twice a semester by every department head and appropriate positive action is taken on the same.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The faculty is honored with an incentive in the form of cash for various distinguished merit activities in the field of academics and research.

Substantial leaves will be sanctioned with full pay to the teaching staff for attending FDP, workshops, conferences, who have registered for / pursuing to attend the Ph.D work.

Appreciation for the faculty member for good work.

Canteen facility along with refreshment coupons are provided

Provision for voicing opinions is provided through grievance/suggestion box

Professional and life skills training are imparted

Library facility is made available R&D Incentives for Teaching staff:

Sanction OD for presenting papers in conferences, symposiums and workshops in other establishments at

least once in a semester.

Sanction TA and DA for out station conferences and symposiums, in deserved cases.

Maternity, Medical leaves / vacation is sanctioned for the required staff.

Welfare measures for Non-Teaching Staff-

Service, Conduct and Leave Rules are made available in the institute website

Uniform is provided for supporting staff.

File Description	Document
Upload any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 0.3

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	02	0

File Description	Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 2.6

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
09	01	01	02	0

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 30.25

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
106	73	00	5	5

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

Institute follows a well-defined and framed model of performance appraisal system namely API (Academic Performance Indicator) as per UGC guidelines

It is based on mainly three categories

1. Teaching, learning and evaluation related activities

2. Professional development, co-curricular and extension activities
3. Research and Academic Contribution

Student satisfaction is given utmost importance at the Institute and hence it is a part of the faculty appraisal system. The feedback helps to review and improve the quality of the teaching-learning processes and measure the effectiveness of course design and delivery.

The feedback is conducted in online/offline mode and complete confidentiality and anonymity is maintained. Apart from feedback, faculty is also assessed on performance of the students.

Every year faculty fills the confidential report at the end of the academic year. The confidential report is reviewed by the Head of the Department and then by the Principal recommendation for further consideration for appreciation or corrective action.

Every non-teaching staff also fills a self-appraisal form at the end of the academic year. The self-appraisal is first reviewed by the Head of the Department for Technical staff and by the registrar for the administrative staff and then by the Principal. The self-appraisal report with recommendation is then sent to Principal for further considerations for appreciation or corrective action.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details and the compliance report of internal audit is submitted to the management of the institution through principal. External audit is conducted once in every year by an external agency.

The mechanisms used to monitor effective and efficient use of financial resources are as below:

Before the commencement of every financial year, principal submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management.

College budget includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non – recurring expenses like lab equipment purchases, furniture and other development expenses.

The expenses will be monitored by the accounts department as per the budget allocated by the management.

Process of the internal audit:

All vouchers are audited by an internal financial committee. The expense incurred under different heads is thoroughly checked by verifying the bills and vouchers. If any discrepancy is found, the same is brought to the notice of the principal.

Process of the external audit:

As per the government rule the accounts of the college are audited by chartered accountant regularly. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management for review. Any queries, in the process of audit would be attended immediately along with the supporting documents within the prescribed time limits. The institution did not come across with any major audit objection during the preceding years. All these mechanisms exhibit the transparency being maintained in financial matters and adherence to financial discipline to avoid defalcation of funds or properties of the institution at all level. The audited statement is duly signed by the authorities of the management and chartered accountant.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

SND COE and RC is a self-financing private institute. It has a well- defined financial policy which ensures optimal utilization of finances for academic, administrative and research activities. The institute is being run with self sufficient funds generated from tuition fee and other miscellaneous incomes. In case of shortage of funds, the management supports by providing the finance. In case activities like expansion and renovation of building, the management always supports by providing required finance. Financial planning is done at the beginning of the academic year well in advance with efficient budgeting involving all the Heads of Academic Departments and Administrative Sections. Apart from the tuition fee, the resource mobilization is mainly done through

- Interest on Corpus
- Funds from University for NSS Activities
- Sale of Application Forms

The management reviews all the financial activities through scrutiny of budgets and expenses in every quarter.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The institute has IQAC cell for implementation of quality assurance strategies and processes at every level of the institution’s functioning. From devising strategies to improve the teaching-learning process through increased use of ICT, expanding the scope of the library, transforming it into a multivalent knowledge portal, and signing MoUs with research institutes to re-defining the boundaries of a vitalizing, meaningful, and holistic education the IQAC has been a proactive player in the overall benchmarking process.

The IQAC has regularly convened meetings; it has submitted the AQARs to NAAC in a timely manner; it has collected feedback in appropriate forms from different stakeholder categories, analyzed the same, and used it for qualitative improvement. Institute departments have conducted Academic and Administrative Audits and have initiated follow-up actions as per the suggestions and recommendations of the eminent evaluators.

Two practices institutionalized as a result of IQAC initiatives are:

1.Academic and administrative Audit: IQAC conducts an internal academic audit twice a semester and takes appropriate remedial actions to improve the quality of technical education. The basic aim is to determine the existence, operation, and effectiveness of the quality system. The continuous improvement is achieved through periodic audits and satisfying statutory requirements. Academic audits help the college to know their strength and challenges and IQAC to assess the quality status individually and institution as a whole. It also helps in identifying the best practices that can be evolved and institutionalized. During the audit, course files are thoroughly verified. Besides planning, monitoring, and assessing the content delivery the other additional duties ensured are:

- Time table and workload verification are done before the commencement of every semester.
- Monitoring of classes and reporting the discrepancies (if any) to the higher authorities
- Laboratory audit
- Library audit
- Identified slow/advanced learners and organized activities to address their needs.
- Identified curricular gaps and organized guest lecture/seminar/workshop/ certificate courses on different topics to fill the curricular gap

1.Student Feedback Survey:

Reviews of the quality of the faculty members are taken twice, once at the mid of the semester and the other at the end of the semester to improve the teaching-learning process. Student Feedback Survey of Each and Every Faculty member who handled classes/practical in a semester is taken periodically. A standard questionnaire- simple and straightforward is used with key factors on which the faculty member's performance is assessed. Based on all the feedbacks, IQAC provides constructive comments to improve the quality of teaching and the teaching-learning process, if required.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Institute has implemented the Academic Audit System that helps to attain the mission and to march

towards the vision. To ensure the directed and significant progress the internal academic audit through IQAC and external academic audit by the external experts are done twice a year, generally at the end of the first semester and at the end of the second semester. The audit system undertakes continuous monitoring and evaluation of the departmental academic processes and practices. Every department has a well-structured system of internal and external review named as Department Academic Audits System. This audit system is instrumental in quality assurance and continuous improvement.

Internal Academic Audit System:

Every academic year the members of the Internal Academic Audit Committee are nominated by IQAC. Generally, the members of the Internal Academic Audit Committee are the Academic coordinator of the respective department and two academic coordinators of the other departments. The main objective

of the Internal Academic Audit Committee is to verify the academic activities of the departments as per the defined standards and the processes and prepare the detail report. The Internal Academic Audit report is submitted to IQAC. Based on the submitted report IQAC prepares the suggestions. This audit report and the suggestions of IQAC are made available to the External Academic Audit Committee.

External Academic Audit Committee:

The members of the External Academic Audit Committee are appointed by the head of the Institute as per the recommended names from the department. This committee is constituted of three or four members, minimum of one member from the Industry and others from academia.

Mechanism of external audit:

In the beginning, the members of the External Academic Audit committee are acquainted with the practices, processes, academic calendar, and activity calendar by the head of the department. Then the committee members interact with the head of the department with respect to previous academic audit reports, their compliances, current internal academic audit report, and observations & suggestions of IQAC. The committee members then thoroughly interact with the individual course instructors. The individual course instructor provides all the relevant documents and presents the contributions and initiatives taken by them. During the interactions, the members record the facts and observations. Considering the interaction with individual faculty, audit head, relevant documents, defined criteria, and overall ambiance the audit report is prepared. The audit report includes strengths, weaknesses, general observations, suggestions, and recommendations. The audit report is presented by the committee in staff meetings and submitted to the head of the department. As per the observations, suggestions, and recommendations of the committee every head of the department prepares the plan of implementation to overcome the lacunas if any, and suggestions for quality assurance. It is discussed in the DAB meeting and submitted to IQAC for information.

Effect of Academic Audit:

- Helps to strengthen standardized processes and practices
- Build and improves confidence of the faculty and learners
- Enhanced the involvement of the faculty with students
- Enhanced academic contribution of the faculty

Contributed towards the continuous improvement and quality assurance

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: C. 2 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Gender equality is not only a fundamental human right, but also a necessary foundation for a peaceful, prosperous and sustainable world. Gender equality is when people of all genders have equal rights, responsibilities and opportunities.

The institution understands the responsibility towards gender equality and plethora of initiatives has been taken in the consideration of the same. The institute has culture of equal opportunity for all cadres and genders. It is reflected during academic, administration and other activities. SND College of Engineering and Research Center therefore organises variety of campus programs so that students know their responsibility towards the community.

The main services provided listed below:

1. Safety & Security

Security of students is a top priority at every college campus. Nowadays, safe and supportive campus community is both an obligation and a challenge for college administrators and students. So in our campus we provide CCTV camera provision for 24 hours. It helps to keep a check on antisocial activities. Students and other employees in the college to remain cautious about the surveillance. Guardians are satisfied with our discipline in campus. Fire extinguishers are kept at various locations in institute. Security person at entrance gate maintains the records of visitors.

2. Counselling

a. Tutors

Tutors are assigned the responsibility of mentoring and counselling of students. Each tutor takes care of a group of 20-25 students. Students are being counselled individually as per needs.

b. Women Grievance cell

Women Grievance Cell has been established in the Institute under the Act No 20 of 1990 of Govt. of India. The objective of 'Women's Grievance Redressal Cell' is to ensure safe and conducive environment for the female employees and students. It provides confidentiality and support to the campus community who might be the victims of sexual or physical abuse. Further it helps the victims to submit the grievance through informal and formal means; and ensures fair and timely redressal of the grievance.

3. Common Rooms

In the institute, separate girl common room is provided, which is used during the leisure time, lunch hours

and biological clock hours or as per the need. Facilities like drinking water, mirror, washbasin, sanitary pad vending machine, incinerator machine etc. are made available.

4. Day Care Centre for young children

Society has sister concern school, in close proximity, is extending the support to provide day care facility to our faculty members kids.

5. Other Relevant initiatives by institute:

Institute celebrates various events and organises different activities like National Girl's Child Day, National Women's Day, Nirbhay Kanya Day, guest lectures by eminent working women etc.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management

- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

Solid Waste Management:

Institution has taken many initiatives towards waste management. The Institute follows the principle of 3R (Reduce, Reuse and Recycle) to meet its objective of sustainable development.

The institution's key operations have less impact on the environment as the college is very conscious of generating negligible waste. Waste characterization is the first critical step in successful waste management. Institute have a simple solid waste management system. It involves everything from collection to disposal. Paper and paper products, pens, disposable drink containers, waste food in canteen and compostable organic material etc. are the waste products in college campus.

Adequate number of trash cans and dust bins are placed all over the campus. Waste is separately collected at different locations in bins based on the properties like disposable and non-disposable waste material. The vegetable waste from the canteen are arranged to be disposed regularly to keep the campus clean.

Liquid Waste management:

The water thrown out of the RO purification system is used for watering the plants and trees in the campus. The chemical waste of the laboratory is fully diluted with water and drained out.

Liquid waste generated from canteen comprises of food wastes, dairy products and domestic waste water is discharged in soak pit. The toilet waste is collected through piping system and discharged into septic tank.

E-waste management:

E-waste management is one of the challenges faced by the organizations in the modern era. Typical Electronic and electrical wastes are generated every now and then. E-waste of computers, electronic and electrical instruments/equipments is used for demonstration purpose to the students. Whereas outdated and scrap e-waste is handed over to local authorised scrap vendor. UPS batteries are exchanged with new batteries considering scrap values from the suppliers. The institute also takes benefit of the various buy back offers from the suppliers.

The institute does not generate hazardous waste, radioactive waste and biomedical waste.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: B. 3 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Divyangjan friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: B. 3 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Link for any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The institute through its practices and activities, is successful in creating a unity among all stakeholders belonging to different religions, castes and beliefs. Institute has taken efforts for sensitizing the students

about cultural, regional, linguistic communal and socioeconomic diversities of the state and the Nation.

Institute has undertaken various initiatives in the form of celebration of days of renowned personalities, National festivals, NSS and other activities to provide for ergonomic environment by carrying students and staff with varied background on single platform for creating all-inclusive environments.

Republic Day and Independence Day are celebrated every year in Institute campus. All teaching, non-teaching staff and students participate for the cause of nation.

Institute always motivates students to organize and participate in different programs organized by institute, inter-institute, University and other Government or non-government organizations to make them sensitize towards cultural, regional, linguistic, communal and socio economic diversities.

To represent diversity of Indian culture, students presents themes of different states and culture during celebration of cultural day. This creates the positive & peaceful environment in the Institute and society.

File Description	Document
Link for any other relevant information	View Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

Responsible citizen needs to abide by the constitution and support its principles, National Flag and the National Anthem to respect and obey the noble ideals that inspired the national struggle for liberty.

The institute conducts various programs do develop and improve values, rights, duties and responsibilities amongst the students as a citizen. The Institute has conducted programs such as voter’s right awareness, cleanliness, Swachha Bharat, Energy Conservation, Women empowerment, Water Conservation, Tree Plantation, constitution day etc.

The college encourages the students to participate in winter camps, various other activities for them helping them to learn the importance of securing the cultural heritage of the country. The Induction Program also focus on motivating the students about their rights and duties being the citizens of the country. Singing of national anthem in the campus every day, so as to bring a feeling of patriotism among all, is practiced. The students also being the accountable citizens get many community services and give services to mankind and society.

Every year Republic Day is celebrated on the 26th January followed by procession through Yeola town giving the message of “Unity in Diversity”. Independence Day is celebrated on 15th August at institute

level.

NSS unit works to motivate the students and the unit is always successfully conducting activities to provide service the society. Seminars and workshops are arranged by eminent personalities to give lectures on morals, values, duties, and responsibilities and on saving the environment. Some related activities are conducted in the induction program, debates, and poster presentations.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: B. 3 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Institution celebrates commemorative days, events and festivals at college level and department level. The cultural activities are informal and are intended to sensitize the academic world to other dimensions of human experience and knowledge, with the hope that this would enrich the lives of students and make them aware of their social responsibilities and understand the implications of their actions.

Commemorative days and Events:

The Independence Day and Republic Day is celebrated at large scale. Birthday anniversary of Mahatma Gandhi, Chhatrapati Shivajimaharaj, Swami Vivekanand , Savitribai Phule , Dr A.P.J .Kalam , Dr.M. Vishveshwarayya , etc are celebrated in institute.

Teacher's Day is celebrated on occasion of birth anniversary of Dr. Sarvpalli Radhakrushnan, which is celebrated centrally as well as at departmental level, to show the honor and respect towards the teachers.

The Engineers day is also celebrated on occasion of birth anniversary of Sir. M.Vishweshwarayya to express gratitude towards great engineer.

Marathi Bhasha Din is celebrated on birth anniversary of Shri. V.V.Shirwadkar. Library department take initiative to celebrate this day.

Constitution Day also known as 'Samvidhan Divas', is celebrated in our country on 26th November every year in the institute to commemorate the adoption of the Constitution of India.

As per guidelines by Government of Maharashtra institute celebrated 15th October as "Reading Inspiration Day" because Reading helps everyone to grow mentally, emotionally & psychologically & open the doors of new knowledge to enlighten the mind. This programme is arranged by Library Section of the Institute.

Festivals:

Institute celebrate Ganesh Utsav every year along with this KSHITIJ Annual Cultural festival is celebrated every year at grand level. Such a celebrations enhances the involvement of students in organizing the events ultimately improves their team work, event handling ability and confidence. Singing, Dancing, Drama, Musical Instrument Playing, Traditional Day, Cultural Day, Rangoli Competition , Poster Presentation , Face Painting etc. are the parts of KSHITIJ.

Students are felicitated and awarded at the Institute for their remarkable performance and achievement in cultural activities and events.

Departmental Associations events include skits on various occasions, Engineer's Day, Teacher's Day, Guru-Pournima, Fresher Party and Send off function for final year students etc.As a result of these activities students of B.E Civil made a short film entitled "ATKT" in year 2020.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document
Link for any other relevant information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

Title of the Best Practice 1: *Digital Content Development* (Digital Content development as an Advancement to Teaching-Learning)

Introduction

During pandemic situation it is noticed that video lectures are important part of core information delivery mechanism. From feedback of students and teachers it has been revealed that recorded video lecture can be a very effective educational tool and has significant impact in changing the learning environment. Institute has taken initiative in training and promoting teachers for creating the video lecture series as per the university prescribed curriculum for all the engineering and core science courses progressively. Teachers at department since last two years have begun recording the lectures, and made them available online for students and these videos are being used as supportive educational tool. Teachers are guided and trained so as to build effective videos.

Objectives

The objectives of the scheme are to

- Make available the e-Content to teachers and students through the modes of YouTube channels for formal and Non-formal education, for supplementing and complementing the process of teaching and learning in higher
- To increase students concentration on particular subject matter in depth learning Education, Guidelines for e-Content Development.
- To reuse many time the content to various group of same class without hesitate and unchanging.
- To cover all type of students such as below average, average and highly intelligent students in the classroom during the learning period.
- To use the content at anytime, anywhere, any one in the corner of universe.

Context

Well-developed e-content can be delivered many times to different learners. Individual course components

i.e. units, lessons and media elements such as graphics and animations can be re-used in different contexts. The purpose of e-content development is to create an information rich society.

The Practice

Institute has its own portal as digital repository and for access of these video lectures. Link is available at home page of institute website <https://sndcoe.ac.in/> through an online portal, video lectures and supporting learning material is made available for the students. Video lectures are prepared as per university prescribed curriculum for all the theory and laboratory courses. Besides that few topics beyond curriculum are covered. Each course video lecture series is outlined with clear objectives, outcomes and plan.

A] Development of Digital content for the subjects by Faculty members

While preparing Digital content for all the theory and laboratory courses following procedure is adopted.

- Introduce course design and objectives.
- Video lectures are prepared as per the affiliated university prescribed curriculum for all the theory and laboratory courses.
- Encourage use of diagrams while preparing E-content.
- Preparation of animation, graphics, bars, charts as requirement of contents.
- Video switching, Audio Mixing, Studio preparedness and Technical support during recording.
- Editing of the video programme with proper visualization as per requirement of the content.

B] Content Scrutiny by Head of the Department or Subject Expert.

- Prepared digital contents are verified and inspected by Head of the department or senior faculty members before uploading.
- Carry out amendment as suggested by Expert/Preview team.

C] Uploading the Content on YouTube Channel

- After implementing suggestions from expert, upload video on department YouTube channel.
- All department YouTube video channels are linked to College YouTube Channel, where students and faculty can get access anytime, anywhere.
- All the students and faculty members are subscribed to departmental and college YouTube channel.

Highlights

At present, the video lectures available at the portal include:

- Number of Courses: 156
- Total number of video lectures: Appx.3100
- Average duration of one video lecture: 40 min
- Overall feedback: Good

- Total size: 350GB
- Number of users: a. Teachers: 140 and b. Students: 1473
- Total Visitors to Portal: 13074

Evidence of Success

Most of the courses having above 95% result and Improvement in quality of the teaching. Students can learn at an individual pace with Opportunity for self-study and self-testing. Also there is improvement in learning with different topic difficulty. Students getting higher count of elaborations, practice of solving numerical and problems with varying complexities. Interdepartmental students are benefitted from this activity, as no of students got placed various software industry.

Problems Encountered and Resources Required

Teachers should be aware of the learning characteristics of the students when they are trying to enhance their educational achievement.

1) Audience's Challenges:

Audience means students whose age, gender, educational level, language, level of their understanding, interests, attitude, present needs, beliefs and etc. was not easy to understand.

2) Personal Challenges:

To develop Digital Content was not easy task at rural level. As this content was to made available on universal platform each and every each and every thing was to planned and executed until the best content was developed. Many time retake was done for small errors.

Resources Required

- Internet facility
- Recording instruments & software
- Editing software
- Quality subject-specific Content in the form of PPT etc.

Title of the Best Practice 2: *Comprehensive Student Monitoring System.*

Introduction

Faculty Tutor play a crucial role in mentoring graduates. Students and their tutors share responsibility for

ensuring productive and rewarding mentoring relationships. Both parties have a role to play in the success of mentoring.

For graduate students, a tutor is someone who serves as a guide throughout their institutional training. They provide both professional and personal advice to the students. They further give constructive feedback on writing, teaching and other elements of career design. They can serve to help students balance professional goals with their personal lives or give emotional encouragement during challenging times.

Objectives

The objectives of the comprehensive student monitoring system are as follow

- To monitor the students regularity discipline
- To enable the parents to know about the performance regularity of their wards.
- To establish a first line of communication for each student with the institution.
- To create a sense of oneness among students with the institution.
- To identify and mitigate psychology societal and other issues faced by students and coursed there or refer them to experts for remedy.
- To make the students be self-aware of their strengths and weakness and take necessary remedial action.

The Context:

Inculcating discipline, punctuality and motivation among the students is the main objective in career building of a student. In this direction, the college has a well-established system to monitor the student's activity. The organizational structures, policies, and practices support monitoring the students' progress and commitment too.

The Practice:

- Each faculty member is the tutor of a group of 20 to 25 students allocated to him/ her by the Head of the Department.
- The tutor collects personal information from the ward without touching sensitive issues or forcing any information out of the wards and then provides the needed counseling to the wards.
- Critical issues are brought to the notice of the Head of the Department.
- The teacher meets the wards informally outside class hours as well and guides them regarding their career options.
- When the students enter the college, they get lost in the crowd with too many students in the same class coming from different backgrounds these students face stress of complex course, peer pressure, and emotional immaturity. Therefore, it is the need of the hour to intervene and introduce monitoring and guidance program to this vulnerable group.
- The subject teacher takes students attendance in every class during the first five minutes and after the class enters the list of absentees in the academic activity register to enable the head of the department to monitor the students in each period of the day.
- The class in-charges prepare the monthly attendance of the students for each section and send the information to the parents of defaulters through proper channel.
- The following measures are being taken for improvement of the attendance of the students.
- The concerned teacher enquires and counsels the student if he is absent for two continuous classes.

The class-in charge enquires and counsels the student if he is continuously absent for more than two days and directs him to HOD for necessary action.

- The HOD warns the student if he is absent continuously for more than one week and informs the parents about his irregularity. The HOD calls the parents of a student if he is absent continuously for more than two weeks, enquires the reason and advises them to take care of their ward.
- The HOD forwards the details of a student to the Principal for further action if he is absent continuously even after informing his parents.
- Periodic meetings are conducted by the Principal with HODs to review the punctuality and regularity of the students.
- Weightage is given to attendance in internal marks to improve the student's regularity. 5 marks are allotted for attendance in each theory subject in a graded manner.
- Every student participates in the events conducted in the college or other colleges with the prior permission of the concerned HOD.
- Disciplinary Committee of the college promptly curbs the indiscipline in the campus.
- Anti-Ragging Committee monitors the fresher's by frequently visiting the sensitive areas within the campus and outside the campus.

Responsibilities of tutor.

The tutor will perform the following functions

- Meet the group of students at least twice a month.
- Maintain a detailed progressive record of the student.
- Keep contact details of students and parents.
- Send a letter to parents/guardian for parents meet and also contact parents/guardian if the situation demands.
- Continuously monitor, counsel, guide and motivate the students in all academic pursuits.
- Advises students in their career development/professional guidance.
- Keeps contact with the students even after their graduation.
- Intimates HOD and suggest if any administrative action is called for.
- Maintains a brief but clear record of all discussions with students.

Evidence of Success:

- The improvement in attendance of the students speaks volumes regarding steps taken for monitoring the students.
- The enhancement in performance of the students due to regular monitoring and discipline in the college is an evidence of success of the practice.

Problems Encountered and Resources Required:

- No problems are encountered in forming various committees and conducting meetings due to proper distribution of load among the staff.
- A few problems are encountered in the implementation:
- Enquiring the student in the class, regarding his absence, wastes time for all the students in the class.

- Poor response of the parents for enquiries from the college Resources Required:
- More number of classes to complete the subject than the actual required number of classes.
- Extra efforts of staff and the HOD to counsel the students and to explain the parents about their role and cooperation in monitoring their wards. These problems are solved with the total involvement of the Principal, the HOD the staff and they are successful in making the parents aware of their role in building the career of their wards.

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

A] Giving back to society and Environment

"This society should sincerely serve the cause of the education needs of the common man of this cosmopolitan city."

Institute believes in high standards of academic, professional, and societal performance. We believe that college life is not all about academics, games, friends, and fun. It is also about learning to interact with other people, being aware of social, environmental and gender issues, and inequities in the society. We provide an opportunity to every student to contribute to make the society in which they live a better place and to grow as better individuals. The Institute has committed itself to the task of inculcating social values and responsibilities in its students.

In line with its vision of working towards the socio-economic development of the country, the college has taken utmost care to give back to the community. Several student committees are formed to carry out the duties towards society. The one-week long intense induction program gives the freshmen an insight into the institute's values and vision.

Along with other sports cultural and technical activities, the NSS unit plans activities like tree plantation and field visits to expose the students to the pressing issues in our society. A session on Yoga is arranged by experts. Every first-year faculty member interacts regularly with the students through open discussions on various topics. Several activities are undertaken for the first-year students to expose them to the

pressing environmental issues that ail us. They are taken on field visits to related industries and encouraged to participate in competitions dealing with environmental issues. The poster competition event was organized regularly for the engineering students to present their ideas to address the environmental issues.

As a special thrust, societal development is also instilled on a large scale into the students through the active NSS unit which undertakes various services to inculcate social values. Throughout the year, the NSS unit undertakes a plethora of events ranging from street plays, cleanliness drives, tree plantation drives, donation drives, waste management drives, gender equity, field visits and many more. Street plays are arranged by NSS group during the camp which address social problems.

B] Higher Education Awareness Programmes for Junior College and Polytechnic Students

Education is a lifelong pursuit that can have a significant impact on your present and future. The years spent in higher education expose students to new ideas, teaches them how to think critically, and gives them the skills they need to succeed in the workforce. When you invest in your education, it can change your life and provide better opportunities; that's why we want you to be aware of the importance of higher education.

As per our mission, "To use value based universal education of engineering and technology to develop the nation for global competitiveness and to bring harmony to mankind", we conduct "**Higher Education Awareness Programme**" at the Junior Colleges and Polytechnic institute across the MAHARASHTRA to encourage students for higher technical education. In the normal conditions, faculty of our Institute reach at nearby junior colleges, polytechnic institutes and deliver the seminars and council each and every students personally. Also during pandemic situation our faculty members conducted online webinars for the students with an ambition students from rural areas will fly with seven colors in the sky.

As a part of this Awareness Programme, we not only encourage them for higher studies but also guide them regarding filling MHT-CET entrance form, JEE, NEET exam form. We also update them daily regarding process, criteria, documents required for admission. We also create awareness about government Scholarship schemes, so that students from economically backward categories can take its advantage for higher education.

C] Additional Utilization of Resources

- Examination center for State and National agencies like conducting examinations of "Health Department ,MIDC Recruitment ,Water Resource department recruitment, NEET Examination",
- Career Guidance for 12th Science and polytechnic students
- Facilitation Centers for Engineering Admission process
- Department Services and Consultancy
- Extended Time for student's counseling

Outcomes

- Because of Tree Plantation programme undertaken by NSS team in the surrounding village the barren land flourished with flora and these trees reduced the heat island effect through evaporative cooling and reducing the amount of sunlight that reaches parking lots and buildings.
- Also tree planation helped to improve our air quality by filtering harmful dust and pollutants such as ozone, carbon monoxide, and sulfur dioxide from the air we breathe.
- As a result of “Higher Education Awareness Programme” more than 10,000 students appeared for entrance examination in medical, pharmacy and engineering field.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

SND College of Engineering and Research Center Yeola, established in 2006, by Jagdamba Education Society's established in 1991. In the last 15 years the Institutes has grown horizontally and vertically. Institutes offers both UG and PG Programmes of Savitribai Phule Pune University, Pune in all Major engineering branches Like Mechanical, Computer, Information Technology, Electrical, Civil and MBA. Major landmark in development of Institutes were ISO 9001:2015 Certification and NAAC Accreditation.

Under Jagdamba Education Society, various professional institutes are running like BAMS, BHMS, Nursing, Pharmacy along with well-equipped hospitals and Agriculture College etc. These sister institutes are always helping us to avail the medical facilities and healthcare related issues of the students and the society. As an emergency service, the Ambulance is available 24 X 7.

Concluding Remarks :

The Institute is constantly focusing on technical education quality. The Institute's systematic and well-planned efforts in this area are reflected in activities carried out throughout the years, which have improved multidimensional development of institute

Boards of trustees, GC, CDC, IQAC, Academic Monitoring Committee, and numerous institute level committees make up the governance structure. This has a significant impact on the Institute's evolutionary reforms, which are aimed at putting it on the preferred list of all stakeholders.

The academic infrastructure is equipped with technology and ICT tools to improve the teaching-learning process. Continuous improvement are made to maintain and improve existing infrastructure.

The IQAC keeps a close eye on academic and administrative matters. The institute adapts its best practices to allow all types of learners to use them for 360-degree growth and entrepreneurial activities.

To summarize, we work hard to develop the institute in all aspects, including infrastructure, academics, and human resources, in order to obtain accreditations that certify the standards and processes followed, as well as to understand the scope for improvement in order to achieve the defined Vision.