



## **YEARLY STATUS REPORT - 2020-2021**

### **Part A**

#### **Data of the Institution**

<b>1.Name of the Institution</b>		PES'S MODERN COLLEGE OF ENGINEERING , PUNE
• Name of the Head of the institution		PROF. DR. (Mrs) K. R. JOSHI
• Designation		PRINCIPAL
• Does the institution function from its own campus?		Yes
• Phone no./Alternate phone no.		02025533638
• Mobile no		9011070917
• Registered e-mail		principal@moderncoe.edu.in
• Alternate e-mail		pesmcoe@gmail.com
• Address		1186A , Shivaji Nagar , Off J.M. Road Pune 411005
• City/Town		PUNE
• State/UT		MAHARASHTRA
• Pin Code		411005
<b>2.Institutional status</b>		
• Affiliated /Constituent		Affiliated
• Type of Institution		Co-education
• Location		Urban

• Financial Status	UGC 2f and 12(B)																		
• Name of the Affiliating University	Savitribai Phule Pune University , Pune																		
• Name of the IQAC Coordinator	Prof.Dr. Rupali S. Kamathe																		
• Phone No.	02025533638																		
• Alternate phone No.	9822447228																		
• Mobile	9422945755																		
• IQAC e-mail address	iqac@moderncoe.edu.in																		
• Alternate Email address	hodcomp@moderncoe.edu.in																		
3.Website address (Web link of the AQAR (Previous Academic Year)	<a href="https://moderncoe.edu.in/aqar.aspx">https://moderncoe.edu.in/aqar.aspx</a>																		
4.Whether Academic Calendar prepared during the year?	Yes																		
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://moderncoe.edu.in/academic-calender.aspx">https://moderncoe.edu.in/academic-calender.aspx</a>																		
<b>5.Accreditation Details</b>																			
<table border="1"> <thead> <tr> <th>Cycle</th> <th>Grade</th> <th>CGPA</th> <th>Year of Accreditation</th> <th>Validity from</th> <th>Validity to</th> </tr> </thead> <tbody> <tr> <td>Cycle 1</td> <td>B</td> <td>2.45</td> <td>2011</td> <td>27/03/2011</td> <td>26/03/2016</td> </tr> <tr> <td>Cycle 2</td> <td>A</td> <td>3.10</td> <td>2017</td> <td>22/02/2017</td> <td>21/02/2022</td> </tr> </tbody> </table>	Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to	Cycle 1	B	2.45	2011	27/03/2011	26/03/2016	Cycle 2	A	3.10	2017	22/02/2017	21/02/2022	
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to														
Cycle 1	B	2.45	2011	27/03/2011	26/03/2016														
Cycle 2	A	3.10	2017	22/02/2017	21/02/2022														
6.Date of Establishment of IQAC	05/01/2010																		
<b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>																			

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Electrical Engineering	MODROB	AICTE	2019-20, 2 years	1313725
Electrical Engineering	FDP	AICTE	2020-21, 1 year	517833
Electrical Engineering	FDP	AICTE	2020-21, 1 year	93000
Master of Business Administration	SPDC	AICTE	2019-20, 3 years	1988591
8.Whether composition of IQAC as per latest NAAC guidelines			Yes	
• Upload latest notification of formation of IQAC			<a href="#">View File</a>	
9.No. of IQAC meetings held during the year			4	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?			No	
• If No, please upload the minutes of the meeting(s) and Action Taken Report			<a href="#">View File</a>	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?			Yes	
• If yes, mention the amount			87000	
11.Significant contributions made by IQAC during the current year (maximum five bullets)				
Encouragement for conduction of skill development programs : The departments conducted skill development programs like guest sessions, webinars and workshops for the students in collaboration with different organizations/industries.				

**Commissioning and continuation of professional society chapters:** A professional society chapter for Data Science was established and collaboration with other professional society chapters like IEEE, IET, SAE, ACM, ISTE, ISLE, CSI etc. were continued.

**Encouragement for developments in research and funding:** Faculty members submitted proposals for various research funding schemes and received grants from AICTE and other agencies for Faculty Development Programs, Skill & Personality Development Center (SPDC), Lab development etc.

**Provisions for staff training:** Staff training programs for the use of online platforms and different tools for blended teaching-learning were organized.

**Enhancements in industrial collaborations:** IQAC encouraged the Center of Excellence in collaboration with industries like CISCO, AWS, MICROCHIP, RED HAT, Paloalto, Blueprism University and GoDaddy. MOU's with different organizations and industries have been signed for training, placements and internships.

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

Plan of Action	Achievements/Outcomes
Nil	Nil

**13. Whether the AQAR was placed before statutory body?**

Yes

- Name of the statutory body

Name	Date of meeting(s)
College Development Committee	12/07/2021

**14. Whether institutional data submitted to AISHE**

Year	Date of Submission
2019-20	20/01/2020

**Extended Profile**

**1. Programme**

1.1	630
Number of courses offered by the institution across all programs during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>2.Student</b>	
2.1	1291
Number of students during the year	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
2.2	514
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
2.3	1035
Number of outgoing/ final year students during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>3.Academic</b>	
3.1	207
Number of full time teachers during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
3.2	177
Number of sanctioned posts during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

<b>4.Institution</b>	
4.1 Total number of Classrooms and Seminar halls	<b>44</b>
4.2 Total expenditure excluding salary during the year (INR in lakhs)	<b>43889919</b>
4.3 Total number of computers on campus for academic purposes	<b>1156</b>

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

P.E.S. Modern College of Engineering is affiliated to Savitribai Phule Pune University. The Institute follows the University-prescribed curriculum.

With reference to SPPU Calendar, the Institute meticulously develops academic calendar and planner for effective implementation of the curriculum. Every department prepares its own Academic calendar, Planner and Activity Planner in adherence to the Institute's Calendar and Planner.

Institute follows IQAC recommended quality policies to execute the action plan for performance assessment, evaluation and up-gradation.

Academic Planning and Development Committee (APDC) takes the approval from IQAC and provides guidelines for the effective implementation of the curriculum. The academic activities are executed as per the planner and are recorded in the execution report.

Due to pandemic situation, following digital platforms and ICT Tools

were used for effective delivery of curriculum :

- Google Suite,
- Microsoft Teams,
- YouTube Channel,
- Websites developed by faculty,
- Virtual Labs,
- Online Whiteboard, Smart board, Open board,
- Webinars etc.

Teaching plans were prepared before commencement of term and were preserved in the course file. E-contents were developed and were uploaded on digital platforms like Google Classroom, youtube channel etc. Curricular and Co-curricular activities were executed as per the academic and activity planner through online platforms.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

- In adherence to the SPPU's academic Calendar, the Institute prepares an academic calendar and planner for effective conduct of Continuous Internal Evaluation (CIE) .
- CIE is done for theory courses, laboratory courses and seminars as well as project work.
- Assessment tools are designed by using Bloom's Taxonomy, in-line with course outcomes (CO) and program outcomes (PO).
- The continuous internal evaluation of theory courses was

conducted throughout the semester via unit tests, MCQ tests, assignments, tutorials and case studies.

- Laboratory courses were continuously evaluated through part submission, mock practicals and oral examinations.
- Seminars, mini projects and major projects were reviewed periodically as per academic planner.
- Execution of CIE was done through online mode.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	Nil

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

**A. All of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## **1.2 - Academic Flexibility**

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

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



14

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Add on /Certificate programs offered during the year****1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)**

60

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

**1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**

1705

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

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

The curriculum includes regular as well as audit courses which inculcate the values like professional ethics, gender equality, human and social responsibilities, sustainable development, environmental conservation etc. in all the programs.

Various co-curricular/extracurricular activities as well as induction/orientation programs were conducted to cultivate these values among the students.

The professional ethics are imparted through courses like code of conduct, business communication skills, soft-skills, seminars, internships and projects etc. The students are encouraged to undertake projects based on societal needs considering environment and sustainability issues.

The students are made aware of the professional ethics through sessions on projects and finance management, intellectual property rights, plagiarism, consumerism, project orientation etc.

Gender Sensitization Awareness is created through webinars like 'Gender Equality awareness', 'Creating safe and positive workplace' etc.

Courses like Humanity and social science, Human rights, Environmental studies, Sustainable energy systems etc. impart human and social values among the students and create awareness about environmental concerns. Students are also sensitized about ecology, through expert sessions on E-waste and pollution control, Water management issues etc.

The students are actively involved in activities like tree plantation, collection and disposal of e-waste/plastic etc. They also celebrate the days of national and international importance.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

### 1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

30

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	<a href="#">View File</a>
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 1.3.3 - Number of students undertaking project work/field work/ internships

3357

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

### 1.4 - Feedback System

**1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni**

A. All of the above

File Description	Documents
URL for stakeholder feedback report	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/All%20Curriculum%20Feedback.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/All%20Curriculum%20Feedback.pdf</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded

<b>1.4.2 - Feedback process of the Institution may be classified as follows</b>	<b>A. Feedback collected, analyzed and action taken and feedback available on website</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/All%20Curriculum%20Feedback.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/All%20Curriculum%20Feedback.pdf</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment Number Number of students admitted during the year</b>	
<b>2.1.1.1 - Number of students admitted during the year</b>	
<b>1291</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>
<b>2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)</b>	
<b>2.1.2.1 - Number of actual students admitted from the reserved categories during the year</b>	
<b>402</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
<b>2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners</b>	
<b>The institute has a well defined process for identifying slow and</b>	

advanced learners. The learning levels of the students are identified by Guardian Faculty Member along with Course Teachers and Mentor, based on their performance in previous university examinations and internal assessments.

To encourage advanced learners, various strategies were implemented. Students were encouraged to undertake challenging projects. They were motivated to participate in project competitions, Technical events such as M-Pulse, Hackathons, Robocon, BAJA, Skill development programmes etc. They were guided to complete advanced certification courses and to prepare for competitive exams.

Students were encouraged to publish papers in various national/international journals/conferences. Students were motivated towards industry internships and training programmes. Students were encouraged to shoulder the responsibility at various professional societies and at institute level clubs.

For slow learners, the remedial and make-up classes have been scheduled. The activities like home assignments, presentations, MCQ tests were conducted for better understanding of fundamentals. To enhance linguistic ability, learners were motivated to attend soft skill sessions. Counselling was provided whenever required. The students were encouraged to complete basic certification courses for improvement in learning levels. Revision practical sessions and extra tutorials were conducted to enhance their learning levels.

File Description	Documents
Paste link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.2.1%20Special%20Programmes%20for%20advanced%20learners%20and%20slow%20learners%20.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.2.1%20Special%20Programmes%20for%20advanced%20learners%20and%20slow%20learners%20.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
3976	207

File Description	Documents
Any additional information	<a href="#">View File</a>

## 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

The institute has ensured that student centric methodologies were actively used to enhance the learning experiences.

### Experiential learning

Students were assisted for internships in various industries. Online industrial visits were organized to give exposure to the industrial environment.

Several hands-on tools were used by faculty members to demonstrate execution of laboratory assignments. Practical demonstrative videos and simulations were shared with the students through online mode. Project based learning is inculcated among the students right from first year to final year.

### Participative learning

Participative learning was ensured through case studies, group activities like project/ seminar presentations, peer learning, think-pair-share activities, debates, group discussions, flipped classrooms, virtual lab, MOOC courses like NPTEL, spoken tutorial, coursera and webinars etc. Students were encouraged to participate in Seminars, Conferences, Project Exhibitions/ Competitions, Technical Paper Writing etc.

### . Problem solving

Students undertake projects to solve the industrial problems, societal problems and environmental problems. Students have been encouraged to participate in related project competitions like Smart India Hackathon, CSI InApp etc. They have also completed projects during the pandemic to provide the solutions to the covid related problems.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.3.1%20Student%20Centric%20Methods.docx%20(1).pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.3.1%20Student%20Centric%20Methods.docx%20(1).pdf</a>

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The Institute used ICT enabled tools in teaching-learning to support, enhance, and optimize the delivery of content, especially during this academic year due to pandemic situations. The tools and platform used were: Microsoft Teams, Zoom, Google-suite, including Google Classroom, Google Jam board, Google Collab, Moodle and other LMS. Open-source softwares like WEKA, Rapid Miner, Packet Tracer, GDB Compiler, Scilab, Xilinx etc. were extensively used by the faculty members. For conduction of practicals, different simulation softwares like JFlap, IIT Bombay's Virtual Lab, VisuAlgo etc. were used. Faculty members also used licenced software like LabView, MATLAB, ETAP, AutoCAD, SolidWorks, MasterCAM etc. Open Education Resources and websites, YouTube Videos and channels prepared by faculty members were used effectively for curriculum delivery.

MOOC Platform such as NPTEL, Coursera, SAP, Udemy, Edx, Eduskills etc have been used. Digital Library resources and e-resources were also used for effective teaching. Smart classrooms for online teaching and Digital board/tablet for blended teaching were used effectively.

Institute has state of the art infrastructure like ICT enabled classrooms, smartboards, tablets, audio systems, web camera and high speed internet connection to enrich curriculum delivery.

File Description	Documents
Upload any additional information	No File Uploaded
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

**2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest**



completed academic year )

### 2.3.3.1 - Number of mentors

205

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full time teachers against sanctioned posts during the year

207

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

### 2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

#### 2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

37

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>

### 2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data



for the latest completed academic year)

### 2.4.3.1 - Total experience of full-time teachers

9

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The institute being affiliated to Savitribai Phule Pune University, the internal assessment is limited to the termwork (TW) only. For improving performance of the students in university examinations as well as for better attainment of COs, due cognizance is given to internal assessment and for effective use of various assessment tools.

All internal assessments are planned and executed as per the academic planner. Academic planner and assessment tools are communicated to the students at the commencement of the term. Theory assessment is conducted thrice in a term. Practical assessment is done continuously throughout the term and is reflected in termwork marks. Projects and seminars are assessed twice a term. Assessment tools are designed based on structure and syllabus prescribed by affiliating university. Assessment rubrics are defined for assignment, tutorials, project seminar presentations and for practical. Course Outcome (CO) and clearly defined rubrics are conveyed to students. To make the students aware of question patterns, question banks are provided to the students in the Curriculum Booklet. Quality of the question paper is verified by the Domain or Module Coordinator. In the academic year 2020-21, MCQ tests were conducted through Google form on Google Classroom and Google Meet. Marks obtained by the students were conveyed to them. During this academic year, due to the pandemic, MCQ tests, unit tests, assignments, presentations, mock orals and tutorials were conducted online.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IOAC/AQAR/AQAR%202020-21/2.5.1%20Final.docx.pdf">https://moderncoe.edu.in/pdf/website/IOAC/AQAR/AQAR%202020-21/2.5.1%20Final.docx.pdf</a>

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

The institute being affiliated to Savitribai Phule Pune University, examinations for theory and practical are conducted as per the schedule and related grievances are communicated to the university authorities through College Examination Officer.

However all internal assessments are conducted for improving performance of the students in university examinations as well as for better attainment of COs. Institute has a well defined mechanism to deal with the grievances related to internal examinations. Examination coordinators along with guardian faculty members, course teachers resolve the grievances if any. The various assessment tools with applicable rubrics, and the assessment schedule are conveyed to the students. The student grievances related to incomplete data in question paper, wrong setting of question are solved by the course teacher. Solution with the marking scheme is discussed by the course teacher after the conduction of the test. Grievances if any are resolved within a period of a week. If a student fails to appear for any internal assessment due to medical or any genuine reason, the reassessment is scheduled against his/her application.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IOAC/AQAR/AQAR%202020-21/2.5.2%20Internal%20Greviances%20Final.docx%20(1).pdf">https://moderncoe.edu.in/pdf/website/IOAC/AQAR/AQAR%202020-21/2.5.2%20Internal%20Greviances%20Final.docx%20(1).pdf</a>

## 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.

Program outcomes and well articulated Course Outcomes are displayed on the institute website for ready reference to all stakeholders.

Course Outcomes are communicated to the students in various ways:

1. Course outcomes were communicated at the commencement of the semester during the lecture.
2. Curriculum Booklet, lab manual, study material contains all course outcomes.
3. Each assessment technique such as question paper includes the respective course outcome along with Bloom's taxonomy and its level of mapping.

The program outcomes were communicated through magazine, newsletters, induction programs, orientation programs, departmental meetings like DAB , IQAC. They were also displayed in classrooms, labs and all notice boards.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://moderncoe.edu.in/program-outcome-2-6-1-20-21.aspx">https://moderncoe.edu.in/program-outcome-2-6-1-20-21.aspx</a>
Upload COs for all Programmes (exemplars from Glossary)	No File Uploaded

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

Institute has a well defined policy document for PO and CO attainment.

CO Attainment is to be computed for all the theory, practical courses, including Seminar, Project Work, Elective Courses and Audit Courses.

For theory and practical courses considering the assessment tools the attainment was computed. CO attainment levels were divided in two parts:

External Assessment (80% weightage) - Includes University In-Sem and End-Semester Examination and University Oral/Practical Examination and University Term work.

**Internal Assessment (20% weightage) - Includes Continuous Assessment for practicals, Tests, MCQ, Assignments, Simulations, Programming Skill Test, Problem Solving, seminar and project phase-I.**

All courses are classified in three categories based on their difficulty level (High, Medium, and Low). Difficulty levels are determined based on the previous academic year university result. The difficulty level for every course should be analysed and Target should be set.

#### Process for PO Attainment

**Direct Attainment (80% weightage) - Includes CO attainment of all courses (Th and Lab work). For Direct assessment of PO Attainment, consider all the theory courses, practical courses.**

**In-direct Attainment (20% weightage) - Includes attainment of Program Exit Survey, Co-curricular and extra-curricular activities, Employers feedback and Alumni feedback.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.6.2%20Process%20of%20CO%20PO%20attainment.docx.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.6.2%20Process%20of%20CO%20PO%20attainment.docx.pdf</a>

### 2.6.3 - Pass percentage of Students during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

**1024**

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.6.3%20Annual%20Report.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.6.3%20Annual%20Report.pdf</a>

## 2.7 - Student Satisfaction Survey

**2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)**

<https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/2.7.1%20Student%20Satisfaction%20Survey.pdf>

## 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 in the institution during the year (INR in Lakhs)**

**3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)**

**40.00**

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	<a href="#">View File</a>
List of endowments / projects with details of grants(Data Template)	<a href="#">View File</a>

**3.1.2 - Number of teachers recognized as research guides (latest completed academic year)**

**3.1.2.1 - Number of teachers recognized as research guides**

**11**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

#### 3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

3

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="https://www.aicte-india.org/">https://www.aicte-india.org/</a>

### 3.2 - Innovation Ecosystem

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

To inculcate the spirit and culture of innovation amongst faculty and students, the institute has a well-established Institution Innovation Council as per the guidelines by MHRD, Govt. of India, Entrepreneurship Development Cell (ED Cell), Industry Institute Interaction cell and Research Centers at various departments.

To encourage, inspire and nurture faculty members and young students by supporting them to work with new ideas and transform them into prototypes, institute offers various funding schemes for developing projects, filing patents and copyrights. In addition to regular curriculum various other activities are promoted, like internships, field visits, hands-on workshops, industry guest lectures, curriculum delivery by industry experts, seminars, workshops on latest technologies, industry sponsored projects, project competitions, collaborative activities with the industries, professional societies and other research organizations.

ED Cell at the institute motivates students to become entrepreneurs by arranging sessions about success stories of other profound entrepreneurs.

To gain the guidance from industry experts for innovation, the institute has MoU with more than 70+ industries. Institute has 10 copyrights and 85+ faculty research publications during the year.

The institute is recognized as 'Band B' institution (rank between 26-50) in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2020 and received Four-Star ranking for IIC by MHRD.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.moderncoe.edu.in/institution-innovation-council.aspx">https://www.moderncoe.edu.in/institution-innovation-council.aspx</a>

### 3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

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

45

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.3 - Research Publications and Awards

#### 3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

##### 3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

3



File Description	Documents
URL to the research page on HEI website	<a href="https://www.moderncoe.edu.in/research-center.aspx">https://www.moderncoe.edu.in/research-center.aspx</a>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

#### 3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

77

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

### 3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

#### 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 year

8

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 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 year

The institute conducts various extension activities under different clubs like National Service Scheme (NSS scheme, Government of



India), Institutional Social Responsibility (ISR) Cell, IEEE Student Chapter and Rotaract clubs established at the institute. Institute has been selected under Unnat Bharat Abhiyan (UBA, Program launched by MHRD). The student volunteers of different clubs organize weekly camps in nearby adopted villages. The main aim is to identify development challenges in rural area and propose appropriate solutions for accelerating sustainable growth.

Several activities are carried out for addressing social and environmental issues such as cleanliness, tree plantation, water conservation, use of solar energy, women education, environmental awareness, national integrity, AIDS awareness, blood donation camp, health check-up camp, etc. In addition to this, students are made aware of social concerns by encouraging participation into various activities like, volunteering for RAD test for Covid-19 and ambulance donation project during pandemic, personal health, road safety, plastic eradication, no vehicle day, etc. As a result, the Rotaract clubs at the institute has received recognition for the exemplary performance by the international Rotaract Club. Awards and recognitions are also received for some projects based on entrepreneurship and Covid pandemic support. These extension activities are helping towards holistic development of students.

File Description	Documents
Paste link for additional information	<a href="https://www.moderncoe.edu.in/isr.aspx">https://www.moderncoe.edu.in/isr.aspx</a> <a href="https://www.moderncoe.edu.in/ed-cell-about.aspx">https://www.moderncoe.edu.in/ed-cell-about.aspx</a>
Upload any additional information	No File Uploaded

### 3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

#### 3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

11

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

**3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year**

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

**39**

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

**3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**

**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 year**

**3785**

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

**3.5 - Collaboration**

**3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year**

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

**441**

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

### 3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

73

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<a href="#">View File</a>

## 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.

The institution provides adequate availability and best possible utilization of physical infrastructure to support the teaching-learning process. The institution has a well-developed campus of 10.47 acres of land.

**Classrooms:**The Institute has ICT enabled digital Classrooms and seminar halls. These are equipped with LCD projectors with audio visual facility, E-podium, smart boards, Web cam with stand, Pen tablet and Internet connection. In pandemic it facilitated in blended teaching learning process.

**Laboratories:** Every department has modernized laboratories with latest equipment and has sufficient licensed software, open source tools to cater the requirements of curriculum & industry enabled teaching. The Institute has a well-equipped workshop with all modern machinery. Learning management system is used for conduction of online practical during pandemic. A virtual lab helped for online practical simulation experience.

**Computing facilities:** The institute has state of art computing facilities with computers and servers having latest configurations. The campus is Wi-Fi enabled and has secured intranet facilities with firewall as well as antivirus software. Various ICT tools such as Google suit, Microsoft teams etc. are being used effectively.

**Library:** Central library is fully automated with ERP WEBDESK software and is equipped with all E-resources.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

**Infrastructure facilities** are provided to students for cultural activities such as drama, dance, singing competitions etc. Activity rooms are provided to the students participating in cultural activities and competitions like Purushottam, Firodiya, Vinodottam Karandak, street plays etc. Activity rooms are equipped with various instruments like Tabla, Zembe, Drum set Amplifier, Speakers etc. The Institute has the auditorium for performing arts, with the seating capacity of more than 500 audiences.

**Sports and games:** The Institute has outdoor sports facility as well as sports complex for indoor games like Badminton and Table Tennis. Two spacious playgrounds of about 12000 and 6000 sq.m. are available for basketball, volleyball, handball, Cricket, Kho-Kho etc. Kits for cricket, basketball, badminton, football, athletics, football, tennis sports are available.

**Gymnasium:** The institute has air conditioned gymnasium equipped with treadmills and strength machines etc. All types of bars, plates &

benches, twister sitter and standing, abdominal board, chin up, cable cross over, decline & incline bench press, hyperextension, dipping with hip flexor, power cage, seating and standing calf machine, heap adductor, jogging cycles, double bars etc. are also available.

**Yoga:**The Institute has a yoga center where students and faculty members do meditate and practice yoga.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

44

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.moderncoe.edu.in/Criterion-IV-20-21.aspx">https://www.moderncoe.edu.in/Criterion-IV-20-21.aspx</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

##### 4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

39,500,927

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

**Library Automation:** Library is automated since the year 2006 with SLIM 21 library management software and from the academic year 2020-21, the library has migrated to the cloud based 'WEBDESK ERP' library management software designed by Akron Systems. It contains different modules.

**Acquisition and cataloguing** - It enables the library to select and buy books, journals, and other resources and create a database of the same for easy book search.

**Serial control** - It enables to handle or control processes of journals such as subscription, renewals and their cancellations.

**Circulation** - It enables to create and manage borrower types along with keeping a tab on their book issue date, return date, dues, and fines.

**Web OPAC-** It enables the users to search for books, journals, or any other library materials.

**Report generator-** It helps to generate various reports such as book transaction report, library member report, library books summary report, etc.

Library has subscribed various e-resources such as Science Direct, J-gate, DELNET, E-books package, etc and the remote access provided through ERP. During the COVID 19 pandemic students were access these resources through ERP login.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	Nil

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources**

**A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

**4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

**11,08,453**

File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

**145**



File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	<a href="#">View File</a>

### 4.3 - IT Infrastructure

#### 4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

Institute has state of the art IT facilities with latest configurations, necessary licensed software, and Wi-Fi facility.

**Computing Facility:** Computing facilities with latest configurations are procured. Central server room is equipped with servers having latest configuration. Blended teaching learning facility is enhanced by procuring tablet-PCs, smartboards, web cameras and audio systems. The Institute has purchased Lenovo 10th Generation Intel i5 computer, Wi-Fi enabled Network Printer and DLP Projectors on 18/02/2021.

**Software:** The Institute has renewed licensed software like ETAP, AutoCAD, MATLAB, SOLIDWORKS etc, from time to time. Timely renewal of Licensed Antivirus software and firewall is carried out. The Institute has procured Google Suit and Microsoft Campus Agreement MSCA. Microsoft EDU-CLOUD is updated on 29/12/2020.

**Intranet/LAN:** Institute has manageable CISCO switches network with fiber connectivity. Internet leased line of 215 MBPS is updated to 265 MBPS on 1/02/2021. Sophos Firewall provides security with modular connectivity options for LAN, WAN, and wireless needs.

**Wi-Fi Access:** Institute has Wi-Fi facility in entire campus with Sophos UTM AP 55C Access Point as a wireless controller.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Number of Computers

1156



File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

4,388,992

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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.

The institute has adequate physical, academic and support facilities. Utilization of same is planned and monitored through regular schedule. Systematic procedures and policies are defined for maintaining these facilities through in-house or external agency. Every equipment purchased is entered and monitored through dead stock register and history cards are maintained for successive records. Laboratory maintenance is supervised by lab in-charge and is carried

out by technical/lab assistant. In the event of any major repair/maintenance, the authorized agency is appointed. The measuring instruments are calibrated from the standard agency. Different training programmes are arranged for technical/lab assistants to enhance their skill sets. Various committees are appointed for optimum utilization of physical, academic and support facilities. The classrooms are well equipped with ICT facilities and are maintained from time to time. Stock verification of equipment and books are completed at the end of every academic year. External agency is appointed for maintaining sports ground and gymnasium. The computing facility is maintained by external agency and internal support staff. The institute also has annual maintenance contracts for civil and other infrastructural maintenance including housekeeping, security etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and free ships provided by the Government during the year

##### 5.1.1.1 - Number of students benefitted by scholarships and free ships provided by the Government during the year

2580

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of students benefitted by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

#### 5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

**5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year**

1

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills**

**A. All of the above**

File Description	Documents
Link to Institutional website	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.1.3%20Capacity%20Building%20and%20Skills%20Enhancement.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.1.3%20Capacity%20Building%20and%20Skills%20Enhancement.pdf</a>
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

**5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

1910

**5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

1910

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## **5.2 - Student Progression**

### **5.2.1 - Number of placement of outgoing students during the year**

#### **5.2.1.1 - Number of outgoing students placed during the year**

**627**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

## 5.2.2 - Number of students progressing to higher education during the year

### 5.2.2.1 - Number of outgoing student progression to higher education

23

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of student progression to higher education	<a href="#">View File</a>

## 5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

### 5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

37

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<a href="#">View File</a>

## 5.3 - Student Participation and Activities

### 5.3.1 - 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)

during the year

**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) during the year.**

8

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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

The Institute ensures students' representation and engagement in various administrative, co-curricular and extracurricular activities as per the norms specified by affiliating university (SPPU).

Students' have representation in IQAC, Anti-raging committee, ICC, SC/ST committee and are also engaged in various committees as stated in students' council.

The Student Council selection process is conducted by inviting applications from the students for the posts of President, Vice President, Ladies representative, Class representatives, and Student chapter representatives. The Class Representatives from each is selected based on academic merit in the preceding examination.

Student Council helps in coordinating all the events related to co-curricular & extra-curricular activities such as national level techno management event M-Pulse, Project/Coding competitions and eminent speaker lecture series in collaboration with Professional Society Student Chapters like IEEE, ACM etc.

Under student council various extra-curricular activities like Annual Social Gathering Spandan, Annual sports event - M-Sports are organized. Students are actively engaged in publication of

Institutes' magazine - Karmanya, departmental E-newsletters/Magazines and project annuals etc. Apart from this Institute have various active student activity clubs like FOSS, Pegasus, Robotics, Brainstormers, Rotaract, Astrophysics club etc. Institutional Social Responsibility Cell and NSS unit conduct various activities to make students aware about their social responsibilities.

File Description	Documents
Paste link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.3.2%20STUDENT%20COUNCIL%2020-21.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.3.2%20STUDENT%20COUNCIL%2020-21.pdf</a>
Upload any additional information	No File Uploaded

### 5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

#### 5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

4

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	<a href="#">View File</a>

### 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

The institution has a registered Alumni Association (MCOE Alumni Cell) which provides support for the development of the institution through various collaborative activities. More than 346 alumni are registered for the MCOE Alumni Cell and the number is still growing.



Our alumni have expertise in various technical/non-technical domains and they are working different sectors like IT, Communication, Automobile, Manufacturing, Embedded Industries Media, Management, Government, Finance, Armed forces etc. Alumni Cell tries to impart the technical and professional skills and wide spectrum of experience from alumni to the students.

MCOE Alumni Cell creates several opportunities through which alumni can interact with the students, such as, workshops, seminars, guest lectures, webinars, project guidance and evaluation and many more. Alumni also support for the training and placement activities and availing industry sponsored projects, internships. The alumni activities help to a large extent to fill industry-academia gap.

Regular Alumni meets are arranged which happens to be most interactive platform for exchange thoughts and ideas for the enhancement of the students. MCOE Alumni Cell strives for excellence and tries to contribute to the development of the institution with its motto of "Connect, Inspire and Grow"

File Description	Documents
Paste link for additional information	<a href="https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.4.1%20Alumni%20Cell%20Registration%20Letter.pdf">https://moderncoe.edu.in/pdf/website/IQAC/AQAR/AQAR%202020-21/5.4.1%20Alumni%20Cell%20Registration%20Letter.pdf</a>
Upload any additional information	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**

**E. <1Lakhs**

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>

## 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

The vision and mission statements of the institute incorporate the perspectives of higher education, which are inclined towards technical, techno social and ethical values and were framed by considering inputs from various stakeholders and internal



committees.

The Institute vision emphasizes on creating an inclusive and collaborative environment and cultivating ethical values. To ensure realization of the vision, the mission statements have created actionable areas with emphasis on development of entrepreneurial skills, impetus for research and development activities, creating an environment of inclusiveness for overall development of students coming from different strata of society.

The Institute is working towards accomplishment of the mission statements, which are clearly aligned to the vision.

The Institute has an efficient multi-layered governance structure. The institute is run by "PROGRESSIVE EDUCATION SOCIETY (PES)", a leading educational institution in Pune. The Board of Governors being at the apex provides directives for the effective implementation of the Institute's academic and administrative activities.

The College Development Committee (CDC) provides the framework of policies, structures, relationships, systems and processes for the smooth functioning of the Institute. Governance in all areas is achieved through active participation at all the levels.

File Description	Documents
Paste link for additional information	<a href="https://moderncoe.edu.in/vision.aspx">https://moderncoe.edu.in/vision.aspx</a>
Upload any additional information	<a href="#">View File</a>

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

The Institution has adopted decentralization and participative management in the implementation of academic and administration processes.

#### Case Study Showing Decentralization and Participative Management:

In the AY 2020-21, the institute has received a grant from AICTE for Skill and Personality Development Centre (SPDC) to conduct skill and personality development sessions for SC/ST students. For this Centre, Programme Evaluation Committee (PEC) was formed consisting of The Principal, Programme Coordinator, heads of two departments

and one subject expert. Right from proposal, planning and execution of SPDC activities, inputs from CDC, IQAC and department coordinators were taken into consideration. Various sessions were arranged based on the suggestions received from department coordinators. Departmental coordinators played a vital role as a catalyst for carrying out different activities especially in the pandemic situation. The programme coordinator was authorized for budget allocation and sanction of the funds for recurring and non-recurring expenses. Session wise feedbacks were collected from participants and were analysed by programme coordinators. Suggestions were considered for deciding further modules. This case study represents effective decentralization and participative management in the smooth conduction of similar activities.

File Description	Documents
Paste link for additional information	<a href="https://moderncoe.edu.in/college-committee.aspx">https://moderncoe.edu.in/college-committee.aspx</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Institute prepares Strategic/Perspective plan, which is reflected in vision and mission statements, in line with it each department prepares its vision and mission statements. Different quality attributes stated by accrediting agency, the guidelines from BOG, CDC are considered while preparation and execution of the perspective plan. IQAC plays a vital role in the implementation of the Perspective Plan which broadly covers Academics and Research, Infrastructure Development, Collaboration with industries and organizations, Extension activities, Accreditation, Governance and Administration.

Example-For collaboration with industries and organizations, as per the perspective plan institute continuously tries to enhance linkages. This helps to create more opportunities for student's internships, projects and placements .Currently more than 80 MoUs are in place.

The institute has established the Centre of Excellence for skill development training in collaboration with EduSkills.

- This association with EduSkills is primarily focused to fill

the gap between Academia and Industry by ensuring access to world class curriculum and training to our faculty members and students.

- Through this collaboration with Cisco, Red Hat, AWS Academy, Go Daddy, Blue Prism and Microchip has been developed to drive its global academy programs.
- All courses, learning management systems and certifications at Zero /discounted cost are available.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The institute has an efficient multi-layered governance structure. The members of Management take keen interest in the development of the Institute. Their association with the Institute through BOG, CDC, IQAC, Purchase Committee, Academic and other committees has always proved to be supportive. The day to day administration is seen by the Principal, Vice-Principal and Professor In-charge (Administration), Administrative Officers and Heads of Departments.

Service rules, policies and procedures

The acts and rules are adopted as guidelines for procedures, recruitment, promotional policies, code of conduct issued from time to time by the regulatory bodies like AICTE, DTE Maharashtra state, Savitribai Phule Pune University from inception. All other applicable state/central government rules and Bye-laws of Progressive Education Society are duly considered.

The Institute has clearly defined policies for all administrative and academic processes. These are approved by the parent body. All processes are adhered to and implemented with a high degree of transparency.

The Institute communicates its quality assurance policies,

mechanisms and outcomes to the various internal and external stakeholders through Institute website [www.moderncoe.edu.in](http://www.moderncoe.edu.in), admission brochure, Institute/departmental leaflets, Induction and orientation programs ,meetings with DAB members, alumni and parents, placement brochure, newsletters and Institute Magazine and so on.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	<a href="https://moderncoe.edu.in/governance.aspx">https://moderncoe.edu.in/governance.aspx</a>
Upload any additional information	<a href="#">View File</a>

### 6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

## 6.3 - Faculty Empowerment Strategies

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

The institution has effective welfare measures for its employees and it provides a caring and supportive working environment for them .Some of these welfare measures for teaching staff are listed below-

- Salary as Per norms
- Appreciation/Reward for remarkable work/outstanding contribution/Ph.D. Completion
- Promotions to higher post for faculty and staff for good work based on Performance Based Appraisal System (PABS) and

**outstanding contribution**

- Permission to staff for higher education
- Financial support for conferences / Research work
- Admission to wards of faculty on priority basis
- Scholarship for children of Staff members
- Health and Accident insurance scheme
- Best Teaching employee award from Parent Society

Some of these welfare measures for non- teaching staff are listed below

- Salary as Per norms
- Permission to staff for higher education
- Admission to wards of staff on priority basis
- Scholarship for children of Staff members
- Health and Accident insurance scheme
- Best Non- Teaching employee award from Parent Society

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year**

**6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year**

8

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

**6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year**

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

17

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	<a href="#">View File</a>
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

#### 6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

114

File Description	Documents
IQAC report summary	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#">View File</a>

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

A performance appraisal system for faculties is set-up, well integrated with institutional functioning. All regular teaching and non-teaching staff of the Institute are evaluated every year.



This leads to the identification of individual training and development needs as well as identification of faculty members whose performance is outstanding. Such performance and excellence is recognized and rewarded.

Performance Appraisal is based on:

- Self-Appraisal
- Feedback from students
- HOD's/Principal's feedback with justification
- Qualification Improvement (Academic)
- Extra-Curricular activities
- Research papers/projects
- Industry and institute interaction
- Consultancy

All non-teaching staff is also assessed through annual performance appraisal.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institute has a well-defined mechanism for internal and external audit. The internal financial audit of the institution is an ongoing continuous process. In addition to this external auditors also verify and certify the entire Income, Expenditure and the Capital Expenditure of the Institute every year. Qualified Auditors from external resources have been permanently appointed and a team of staff under them to do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise an external audit is also carried out in an elaborate way in the quarter of April-June every year by external statutory Auditors as per the standard norms of Audit and Government regulations. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in the future. The institute regularly follows Internal & external



**financial audit system.**

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

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

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

**6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources**

Institute maintains and follows a well-defined process for the mobilization of funds and resources through various committees. Institute has designed well framed policy for the fund usage and resource utilization.

- Tuition fee of students is the major source of income for the institute.
- Sponsorship funds are also sought from various government and non-government agencies for events like seminar/workshops etc.

**Utilization of Funds**

- A finance committee has been constituted to monitor the optimum utilization of funds for various recurring and non-recurring expenses.
- The purchase committee seeks quotations from vendors for the purchase of equipment, computers, books, etc. and scrutinized the same before a final decision is made based on different

parameters.

- The Principal and committee members ensure that the expenditure lies within the allotted budget.

#### Resource Mobilization Policy and Procedure

- At the commencement of financial year, institutional budget is prepared which includes recurring expenses such as salary, electricity and internet charges, stationary along with planned expenses such as lab equipment purchases, furniture etc.
- The budget is scrutinized and approved by the College Development Committee (CDC).
- Statutory auditors are also appointed for certification of the financial statements every year.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

### 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

The IQAC plays an important role in the implementation of quality assurance strategies and processes at all levels. IQAC focusses mainly on following points -

- Quality aspects related to academic and administrative practices
- Collaboration with other organizations, industries and funding agencies
- Training to teaching and non-teaching staff
- Dissemination of quality policies to all stakeholders.
- Collection and analysis of feedback of all the stakeholders.
- Preparation of Self-Study Reports of various accreditation bodies such as NAAC, NIRF, NBA and CII etc.
- Introduction of new programmes/courses
- Preparation and submission of Annual Quality Assurance Report (AQAR)

Two examples of IQAC Initiatives:

1. Two UG programmes - Electrical Engineering and Electronics and telecommunication Engineering have got NBA accreditation for three years (June 2019-May 2022). MCA programme received NBA accreditation for two years from June 2019-May 2021. In AY 2020-21, the NBA compliance report was submitted for PG-MCA programme, based on which the same programme received extension in accreditation for AY 2021-22.

2. A solar wind hybrid power plant has been established successfully under MODROB scheme of AICTE. The generated energy is utilized to share the electricity load demand of the institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

Institute IQAC plays an important role in reviewing the teaching learning process and focuses on effective implementation of Outcome-Based Education (OBE) for all the programs.

The institute has defined Programme Outcomes (POs) based on 12 Graduate Attributes (GAs) as suggested by NAAC.

With the revision in curriculum by affiliating university (SPPU) Course Outcomes (COs) are defined for each course.

Appropriate teaching methodologies and assessment tools are planned and implemented for effective student centric learning.

IQAC has well defined policy and process to define set attainment levels for COs and POs. All curricular and extra-curricular activities are considered for CO and PO attainment.

At the end of academic year IQAC conducts the academic audit, reviews as well as records the attainment levels and suggests various activities for incremental improvement.

73 MoUs have been signed with different industries for skill enhancement. Institute adopted a Center of Excellence in association

with ISTE member Institute and Global corporates. More emphasis was given on ICT based teaching, faculties also created MOOCs and YouTube videos for demonstration of theory and practical for various courses.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://moderncoe.edu.in/aqar.aspx">https://moderncoe.edu.in/aqar.aspx</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## 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 year

The Institute ensures equal concern for girls and boys in all curricular, co-curricular activities. Institute has organized various activities like sessions on Creating a Safe and a Positive Workplace, Gender Equality awareness and Stress Management etc. Institute has the student council committee which has equal participation of girls and boys.

Following facilities are provided specially for women on campus:

**Safety and security**-24 hours working CCTV Surveillance system is available in campus. Overall security of the campus is ensured by external agency, duly appointed by the institute. Entry is permitted by verifying I-cards at security check. The institute has collaboration with Damini Pathak, which can provide necessary support to the girl students, whenever necessary.

**Counseling** -To address the issues of students, each department has mentor-mentee system. In addition to this Institute has MOU with Psychology Department, Modern college of Arts, Science and commerce, Pune to provide counseling sessions. Senior police officers and cyber security experts are invited for conducting sessions on self-defense, cyber security awareness etc.

**Common Rooms**-Institute has well-equipped girls' common room and boys' common facility.

File Description	Documents
Annual gender sensitization action plan	<a href="https://moderncoe.edu.in/dist/documents/2020-21/7.1.1%20Weblink%20Annual%20gender%20sensitization%20Action%20Plan.pdf">https://moderncoe.edu.in/dist/documents/2020-21/7.1.1%20Weblink%20Annual%20gender%20sensitization%20Action%20Plan.pdf</a>
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://moderncoe.edu.in/dist/documents/2020-21/7.1.1%20Weblink%20-%20Specific%20Facilities%20provided%20for%20women.pdf">https://moderncoe.edu.in/dist/documents/2020-21/7.1.1%20Weblink%20-%20Specific%20Facilities%20provided%20for%20women.pdf</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment**

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste**

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

Institute gives due consideration to effective disposal of degradable and non-degradable waste. Biogas and Vermiculture plants are installed and are fully functioning. Biogas plant has the capacity of 35 kilograms and the generated gas is used in canteen. The institute has practice to separate wet waste and dry waste. The wet waste is used in vermiculture plant. The institute is committed to make campus plastic free and is recognized as 'Swachcha Action Plan Institution' under MGNCRE, Govt. of India. The procedure has been set up for e-waste and used paper management. 20k sewage treatment plant is available on campus, for recycling of used water from toilets. In the laboratories, non-hazardous chemicals are used and are diluted before disposal.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

**B. Any 3 of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways

**B. Any 3 of the above**



<b>4. Ban on use of plastic</b> <b>5. Landscaping</b>	
File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded
<b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b>	
<b>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</b>	<b>A. Any 4 or all of the above</b>
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>
<b>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (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</b>	<b>A. Any 4 or all of the above</b>



File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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 200 words).

The institute takes various initiatives for promoting tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities. For the same, various days of National and international importance like Women's day, Yoga day, NSS day, Teachers' day, Republic day, Independence day Marathi Language day and Constitution day are celebrated. Different regional festivals like Shivjayanti utsav, Ayudha puja, Dipawali are also celebrated with zeal and enthusiasm. The institution believes in equality of all cultures and traditions as is evident from the fact that students belonging to different caste, religion, regions are studying without any discrimination. With great fervour, the birth anniversaries and memorials of great Indian personalities like Chatrapati Shivaji Maharaj, Swami Vivekananda, Dr. APJ Abdul Kalam, Cpt. Vikram Batra, Savitribai Phule are celebrated in the institute. Seminars, talks on social issues are organized. Annual cultural festival, 'Spandan' comprising various folk/regional dances, songs and dramas based on social issues is organized by students. For regional and cultural diversity Traditional day is also celebrated in 'Spandan'.

To ensure religious harmony there are holy books available in central library.

There are various committees under Skill and Personality Development Program (SPDC) which organizes sessions on skill development, English conversation etc for students (SC/ST).

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The institute gives due consideration to inculcate values, rights, duties and responsibilities as per presumptions of the constitution of India. This is very well reflected in Vision and Mission statements of parent body as well as of the institute. Curriculum includes subjects like Introduction to Constitution, which lay strong foundation for students to become better human being. The institute has undertaken following activities to achieve this goal:

- Constitution Pledge by students and staff, on Constitution day
- Celebration of national days like Independence day, Republic day etc.
- NSS activities for community service, which include rural development, tree plantation programs. Specifically in pandemic situation students volunteered for On-site Rapid Antigen Testing of Covid-19
- Expert lectures and webinars to guide the students about the professional ethics and moral values
- Activities under Institutional Social Responsibility (ISR) and students' forums as well as clubs
- Students and faculty members of the Institute are also working on Unnat Bharat Abhiyan 2.0, an initiative of MHRD, Govt. of India
- Students actively participated in 'Develop Village Develop India Program' where they design and evaluate solutions for identified societal problems

Contribution of staff members to Chief Minister relief fund,

### Maharashtra during COVID-19 pandemic

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://moderncoe.edu.in/dist/documents/20%20-21/7.1.9%20Weblink-%20Activity%20reports.pdf">https://moderncoe.edu.in/dist/documents/20%20-21/7.1.9%20Weblink-%20Activity%20reports.pdf</a>
Any other relevant information	<a href="https://moderncoe.edu.in/dist/documents/20%20-21/7.1.9%20Relevant%20document.pdf">https://moderncoe.edu.in/dist/documents/20%20-21/7.1.9%20Relevant%20document.pdf</a>

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

**B. Any 3 of the above**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals**

All national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in the students. Every year students come together and perform cultural programs highlighting societal problems. Many events and guest lectures are regularly organized to instill a sense of national pride and gratitude towards sacrifices of great leaders of our country. The student, staff and alumni participate and rejoice during this celebration with great patriotic

feveror.

The Institution also commemorates the birth / death anniversaries of great Indian personalities like Swami Vivekananda, Dr. A.P.J. Abdul Kalam (National Innovation day), Chatrapati Shivaji Maharaj, Rajmata Jijabai, Netaji Subhash Chandra Bose, Shahid Bhagatsingh, Bharatratna Dr. Bhimrao Ambedkar, Veer

Sawarkar and Paramveer Cpt. Vikram Batra. Birth anniversary of founder of parent society, Late Shankarrao Kanitkar is celebrated every year. The invited guests share the teachings of these eminent personalities through their speeches. Institute also organizes various events such as Teachers day, Engineers Day, International Yoga Day, NSS Day, National Science Day, International Women's Day, Marathi language day, Dr. Ranganathan day, Ayudh Pooja on the occasion of Khande Navami etc. The celebration of these days includes organizing various talks and seminars.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.2 - Best Practices

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

### BEST PRACTICE 1:

#### 1. Title of the Practice:

- Innovation and Creativity

#### 1. Objectives of the Practice:

- To encourage continuous learning, creative thinking and innovation among Faculty and students.
- To promote implementation of innovative ideas through various platforms such as Entrepreneurship Development Cell,

Institution Innovation Council and Unnat Bharat Abhiyan etc.

- To recognize and reward the new ideas.
- To facilitate translating the creative works into Intellectual Property (IP).

#### 1. The Context:

- Institute mission is to foster innovation and research by providing a stimulating learning environment and to be responsive to changes in technology, socio economic and environmental conditions. For this the institute has Innovation cell, IPR cell and Entrepreneurship Development cell. The Institute has defined policies and procedure for promoting research activities among students and faculty members.

#### 1. The Practice:

Along with Innovation cell, ED cell and IPR cell, Institute has established Institutional Innovation Council under MHRD, Govt. of India.

- Innovation Cell: Institute Innovation cell has established Project and Innovation laboratories at each department. The cell encourages students and faculty members to undertake projects in multidisciplinary fields in collaboration with Industry or in association with other organizations or funding agencies. Systematically defined Research Funding Scheme is available for students and faculty members to encourage them to undertake innovative / research based/ product development/ Need based projects by providing in-house funding. The cell also encourages faculty members to submit funding proposals to different government and nongovernment agencies like BCUD - Savitribai Phule Pune University, AICTE etc. Funding Schemes are also available for students and faculty members for publication of research papers in conferences and journals.
- Entrepreneurship Development (ED) Cell: ED cell was established at PES Modern College of Engineering in the year 2014 to encourage students to consider self-employment as a career option. The Cell organizes following activities and events to train and motivate the students on entrepreneurship:
  - Pro-Start: Pro-Start aims to promote and upraise ideas of students (budding engineers) towards their start-ups.
  - Vicharghan: Entrepreneurs and experts in different areas are invited to share their knowledge on different subjects.

- Unnat Bharat Abhiyaan (UBA): A flagship programme of Ministry of Human Resource Development (MHRD) Government of India is an opportunity to enable faculty and students of higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. Our institute has been selected as a Participating Institution (PI) under UBA 2.0.
- Ignited Innovators of India (i2i): Students participate actively in social entrepreneurship development activity in collaboration with incubation center at COE, Pune.
- Smart India Hackathon: Students have participated and won prizes in Smart India Hackathon.
- Intellectual Property Rights (IPR) Cell: IPR cell provides guidelines and funding for filing copyrights and patents.
- M-Pulse (A Techno-Management Event) is arranged every year to provide platform for students to showcase their Technical/Non-technical skills. The event includes state/National level project competitions/Hackathons.
- Institution Innovation Council (IIC) has been established in the Institute as per the norms of Innovation Cell, Ministry of HRD, Govt. of India to create a vibrant local innovation ecosystem

#### 1. Evidence of success:

- Based on innovative practice followed, Principal Dr. Mrs. K. R. Joshi has been awarded with "Best Innovative Teacher Award" by Savitribai Phule Pune University, Pune.
- Institution Innovation Council under MHRD, Govt. of India has received 4-Star Rating for two consecutive years 2018-19 & 2019-20.
- CII Gold rank for consecutive three years.
- Institute has been awarded with ARIIA (Atal Ranking of Institution on Innovation Achievements), MHRD, Govt. of India, Ranking between 26th to 50th among private / self-finance institutes engaged in Higher Education in year 2019-20.
- The institute has also promoted and funded students and faculty members to file patents and copyrights. So far 32 copyrights and 26 patents have been filed.
- First prize for Best Project in 9th CSI-inApp National Student Project Awards 2020.
- First prize worth rupees 1 lakh in National level event



## SIH-2020 in hardware category

### 6. Problems Encountered and Resources Required

#### Problems encountered

- Building a research oriented and creative mindset requires constant encouragement for attitude transformation in student community.

#### Resources Required

- Collaboration with industries, government agencies and renowned research institutes is required.

### BEST PRACTICE 2:

#### 1. Title of the Practice:

- Institute's Publications

#### 2. Objectives of the Practice:

- To provide a platform to publish technical and non-technical literature by faculty members and students.
- To disseminate vision, mission, POs, PSOs, PEOs, the important activities and initiatives of the Institute/individual programs to the stakeholders.
- To provide a medium to showcase students' own ideas, writing skills, literary skills and art
- To provide collective information about academics

#### 3. The context:

To promote research and innovation, Institute has taken number of initiatives and one of them is, publication of magazine and peer reviewed research journal. In every academic year, various curricular and extra-curricular activities, seminars and workshops are conducted in various departments of the Institute. There are many noteworthy achievements/ activities of students and staff members at Institute level as well as at university/state/National level. To disseminate this information to all the stakeholders, magazine and program level newsletters are published.



#### 4. The Practice:

The editor faculty members form a students' committee for the magazine and newsletters at the commencement of the semester. The objectives, theme and layout of the forthcoming issue of the publications are discussed with the committee and are finalized. Theme based articles are invited and are published after scrutiny.

There are following publications released every year at Institute/Department level:

Research Journals 'Dnyanmaya' and 'Chaitanya':

The Progressive Education society publishes tri-annual research journal 'Dnyanmaya', meaning 'full of knowledge'. At Institute level, research journal named 'Chaitanya' is published annually. These journals provide a platform for students and faculty members education to publish their research work.

Institute Magazine 'Karmanya':

The main objective of magazine is to encourage & motivate students for creative and innovative technical, nontechnical articles writings with special emphasis to provide platform for multilingual literary work. Karmanya is published annually and e-copies are made available to all stakeholders.

Departmental Magazine:

To disseminate the information related to various activities and initiative carried out by the department to all the stake holders, annual e-Magazine is published every year. Theme based technical articles; interviews with the best outgoing student and entrepreneur are also an integral part of the magazine.

The magazines published by departments are The Electronics Herald, Yugandhar, Darpan, Technominatus etc.

Departmental E-Newsletter:

The Newsletters are published biannually by the departments. It gives information about the activities conducted in the semester, articles on latest technical inventions and students' achievements.

The e-newsletters published by the departments are E-Buzz, The Current Post, Cognizance, The Royal Mechanical, Tech

News, Nivedana, The Computer Express, etc.

#### Project Annual:

Project Annual containing one-page information of all final year projects is published by the departments.

#### E-Curriculum Booklet:

A Curriculum booklet is prepared for each course and is given to the students at the commencement of the semester. It contains information regarding course structure, syllabus, teaching plan, text books and reference books, course objectives, course outcomes, questions for theory and tutorials mapped with respective COs, multiple choice questions (MCQs), reference web links/ research paper/ reference books other than those prescribed in the syllabus. It acts as a ready reference for the academic activities and assessment tools to be followed for the respective courses.

#### 5. Evidence of success:

- Students get in-house platform to showcase their project/research work
- The publications help in true sense for organizing the institutional information at one place and dissemination of the same to the stakeholders.
- Testimonials and success stories of passed out students inspires the budding engineers to follow their footsteps.
- Students showcase their talents and skills by expressing their thoughts and ideas in the e-newsletters and magazines.
- Curriculum booklets help students to get a concise course material.

#### 6. Problems Encountered and Resources Required

##### Problems encountered

- Shortlisting of articles received from large number of students is usually time consuming and challenging

##### Resources Required

- Review committee for selecting quality articles
- Team to ensure aesthetic look of the documents
- Software tools to process and publish the documents online

File Description	Documents
Best practices in the Institutional website	<a href="https://moderncoe.edu.in/dist/documents/20%20-21/7.2.1%20Best%20Practices.pdf">https://moderncoe.edu.in/dist/documents/20%20-21/7.2.1%20Best%20Practices.pdf</a>
Any other relevant information	<a href="https://moderncoe.edu.in/dist/documents/20%20-21/7.2.1%20Best%20Practices%20Relevant%20Info.pdf">https://moderncoe.edu.in/dist/documents/20%20-21/7.2.1%20Best%20Practices%20Relevant%20Info.pdf</a>

### 7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The mission of the institute focuses on being responsive to changes in technology, socio-economic and environmental conditions. Institute's objective is to inculcate ethical standards and make students aware of their social responsibilities. One distinctive approach is to apply the knowledge efficiently and effectively with concern for societal, environmental and cultural aspects. The spirit of team work, discipline, social responsibility towards community development and nation building is inculcated through ISR, NSS cell and various technical and social clubs in the institute.

Especially during pandemic situation institute responsibly helped the society by organizing various expert sessions for students and staff. The NSS and ISR of institute has taken initiative to spread awareness about precautionary measures related to Covid-19. On-site Rapid Antigen Testing activity and Covid-19 quiz were conducted by NSS cell. Various projects are executed by students and faculty members such as 'Making of mask', 'Automatic body temperature announcement system' and 'Low cost Sanitizer dispenser' etc. to prevent and overcome the spread of Covid-19. Students have also undertaken project like AI based automatic face mask detection and Covid data analytics etc.

The faculty and students of the institute had taken initiative towards helping the needy

Covid-19 patients to provide them plasma donor for treatments.

File Description	Documents
Appropriate web in the Institutional website	<a href="#">View File</a>
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

- To enhance the teaching learning process by adopting various pedagogies and blended teaching learning techniques.
- To arrange different quality improvement programs for students and faculty members.
- To encourage faculty members and students towards research and innovation by participating in IIC 4. 0, MHRD, Govt. of India
- To ensure industry ready approach of the students for improvements in placements, online internships and industry certifications.
- To increase entrepreneurship and skill development activities for students.
- To enhance the institute infrastructure and other facilities for supporting increased intake.
- To conduct external academic audits for quality improvement.
- To prepare NBA compliance of UG E&TC and Electrical Engineering Programs, PG MCA Program and pre qualifier proposals for NBA accreditation of UG Computer, Mechanical, IT and PG MBA Programs.
- To conduct webinars and FDP's for awareness regarding autonomy of the institute.
- To create awareness about National Education Policy (NEP) and its implementation.