



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF ENGINEERING
Name of the head of the Institution	PROF.DR.(Mrs) K.R.JOSHI
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02025533638
Mobile no.	9011070917
Registered Email	principal@moderncoe.edu.in
Alternate Email	pesmcoe@gmail.com
Address	1186A ,Shivaji Nagar , off J.M. Road
City/Town	Pune
State/UT	Maharashtra
Pincode	411005

2. Institutional Status																									
Affiliated / Constituent			Affiliated																						
Type of Institution			Co-education																						
Location			Urban																						
Financial Status			Self financed																						
Name of the IQAC co-ordinator/Director			Dr. Kalyani Srinivas C																						
Phone no/Alternate Phone no.			02025535648																						
Mobile no.			9967971077																						
Registered Email			iqac@moderncoe.edu.in																						
Alternate Email			kalyani.srinivas@moderncoe.edu.in																						
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)			https://moderncoe.edu.in/part.php																						
4. Whether Academic Calendar prepared during the year			Yes																						
if yes,whether it is uploaded in the institutional website: Weblink :			https://moderncoe.edu.in/academic-calendar.php																						
5. Accreditation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.45</td> <td>2011</td> <td>27-Apr-2011</td> <td>26-Mar-2016</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.10</td> <td>2017</td> <td>22-Feb-2017</td> <td>21-Feb-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	B	2.45	2011	27-Apr-2011	26-Mar-2016	2	A	3.10	2017	22-Feb-2017	21-Feb-2022
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1	B	2.45	2011	27-Apr-2011	26-Mar-2016																				
2	A	3.10	2017	22-Feb-2017	21-Feb-2022																				
6. Date of Establishment of IQAC			05-Jan-2010																						
7. Internal Quality Assurance System																									
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td colspan="3"> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries														
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No Data Entered/Not Applicable!!!

[View File](#)

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Electronics & Telecommunication and Mechanical Engineering	QIP	SPPU	2019 365	300000
Modern College of Engineering	VVM	SPPU	2019 365	108000
Electrical Engineering	Project	IET	2019 365	9000
Electrical Engineering	MODROB	AICTE	2019 730	1313725
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

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

Yes

If yes, mention the amount

1697048

Year

2019

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

Enhanced opportunities for research: The academic year 2019 20 saw a significant boost in the number of patents and PhD registrations.

Organization of skill development programs: All the departments had organized a number of workshops, webinars, FDPs and online courses for faculty as well as students as a part of skill development programs.

Aids for grant sanctions: The processes for acquiring aids and grants from various bodies for improvements in different domains were given importance. Grants from AICTE for SPDP and SPPU were acquired.

Encouragement for industry involvement: The industry involvement was inculcated in the regular academics through project based learning and partial delivery of course work. Online internships and short duration internships also helped in opening up a vast array of industrial opportunities.

Improvement in ICT usage for academics: Owing to the pandemic situation, the bridging of offline to online teaching was done through various workshops, FDPs and webinars for enhanced methodologies of online teaching. Various software and required ICT tools were made available for the online delivery of lectures and practicals.

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

Plan of Action	Achivements/Outcomes
No Data Entered/Not Applicable!!!	
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Development Committee	02-Jan-2020

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

Yes

Date of Visit

29-Mar-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

20-Jan-2020

17. Does the Institution have Management Information System ?	Yes
<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<p>The Institute has an enterprise resource planning (ERP) System which is a management information system to manage and store students' and Faculty's data in the Institute. This system keeps records of all teaching and nonteaching faculty members of college. It includes all important information of faculty members which is required to be filled in various approval processes like AICTE, DTE etc. This system also keeps record of all students' registration details, admission details, fees details. Various kinds of reports are generated through this system. Students can see different announcements, Academic Calendar, circulars, and College news on their ERP login. Every faculty member will be able to see a profile, NOC request for final submission of students, daily biometric attendance, date wise staff and student's birthdays. Users of System: • Student • Faculty members and Nonteaching staff members • Establishment section • Student Section • Account Section • Examination Section Objectives: 1. To enroll new students in the institute. 2. To automate entire student administration process from admission to LC 3. To maintain all student's information and their academic and other documents in digital format. 4. To have centralized control on student records and monitor it. 5. To reduce unnecessary paperwork. Modules: • Certificate, student section: used by the student section for issuing various types of certificates to students like LC, TC, bonafide etc. • Fees management, Fees Collection: used by the student section for maintaining all fees related documents of every student. Also used to generate various reports like Fee category wise, Caste wise, Category wise student count, Class wise pending fee report, Student wise Fee payment status etc. • Communication: used by the student section for sending SMS to students and their parents. • Office master, Integrated Dashboard, Faculty Allocation: used by the establishment</p>

section for maintaining all staff records.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

PES Modern College of Engineering is affiliated with Savitribai Phule Pune University (SPPU). The course curriculum followed by the Institute is framed by the SPPU. The Course curriculum and structure are revised by the University. Teaching faculty contribute to curriculum revision through curriculum design discussions. Faculties are trained and updated with the latest technologies and skills by upgrading qualifications, publishing papers, attending FDPs/workshops. The SPPU notifies term commencement through Academic Calendar. With this reference, the Institute prepares Institute Academic Calendar and circulates to all departments. The Academic Calendar is the action plan for the effective implementation of the curriculum. The Departmental Academic Calendar reflects the academic activities like term commencement-conclusion, course delivery, internal assessment, co-curricular activities. With reference to Academic Calendar, the Department also prepares Department Activity Planner for activities like guest lectures, STTPs, workshops/seminars, summer-winter vacation training, Industrial Visits, Project Exhibition-Competitions, club activities, etc. The Academic Committee meets regularly to discuss the strategy for effective implementation of the curriculum by ensuring the Course allotment is done well in advance considering faculty preferences and capabilities. To deliver the course effectively, faculty members are encouraged to impart curriculum through pedagogical initiatives like ICT-supported learning such as Video lectures, NPTEL lectures, WordPress websites, Webinars, LMS, etc. Course file is prepared by every faculty before term commencement which contains teaching /course plans, well-prepared lecture notes. Course file also includes test question papers, University papers, content beyond syllabus activities, ICT techniques. Curriculum booklets for each course are prepared for circulating to students. It contains details of course structure, syllabus, teaching plan, text and reference books, course objectives, course outcomes, questions for theory and tutorials mapped with respective COs, MCQs, reference web links, and research papers. During the course of the term, faculties maintain Academic Record Booklet (ARB) for both theory and practical. The ARB keeps a record of the teaching plan and its execution with regard to delivery, assessment, and evaluation. Each course instructor identifies the academic strength of students through regular class/laboratory teaching, internal assessments, and various pedagogies. The use of ICT in teaching-learning helps to stimulate, motivate and engage learners. It also cultivates improved communication between teacher and learner. Make-up classes are conducted to support students performing below average. Above-average performers are encouraged through peer teaching, group discussions, presentations, collaborative projects in and out of class, etc. Mentors are assigned for mentoring the students. Mentors conduct mentee meetings and do counseling for their studies and curricular activities. The industry experts, alumni are invited for project evaluation-competitions to ensure the quality of technology in the teaching-learning processes. The industry experts, alumni give valuable inputs through various activities. The Institute infrastructure facilities are maintained to suit the changing needs of the curriculum through well-stocked libraries. During this Pandemic situation, faculties delivered the courses through Online lectures, self-created videos, and Google Classroom. Effective

communication is maintained through GMeet like platforms. To address the situation of lockdown in March 2020, the faculties conducted online assessments and evaluations and ensured appropriate measures for the future of students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Solar PV Design and installation	-	03/06/2019	12	Entrepreneurship	Technical
Training Session On Java, Advanced Java And Soft Skill	-	03/06/2019	12	Employability	Soft skill
Training session on Aptitude	-	09/07/2019	6	Employability	Technical
Workshop on Soft Skill Sessions Job Readiness by Barclays	-	12/08/2019	8	Employability	Soft skill
Advanced Excel Certification	-	16/08/2019	22	Employability	Technical
Lab in recruitment and selection	-	19/08/2019	20	Employability	Technical
Training on Communication and Employability skill Development	-	01/10/2019	6	Employability	Soft skill
Digital Marketing Certification	-	08/10/2019	23	Employability	Soft skill
Placement Driven Training On - Hardware And Networking.by GTT - Syntel CSR	-	16/12/2019	15	Employability	Technical
Training on Project outline by Global	-	17/12/2019	12	Employability	Technical

Talent Track(GTT)					
Training on SoftSkill by RUBICON by Barclays	-	07/01/2020	3	Employability	Soft skill
Training on Aptitude by FUEL	-	13/01/2020	3	Employability	Technical

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engineering	15/06/2019
ME	Computer Engineering	01/07/2019
BE	Electronics & Telecommunication Engineering	15/06/2019
ME	Electronics & Telecommunication Engineering	01/07/2019
BE	Electrical Engineering	15/06/2019
ME	Electrical Engineering	01/07/2019
BE	Information Technology	15/06/2019
BE	Mechanical Engineering	15/06/2019
ME	Mechanical Engineering	19/07/2019
MBA	Finance	01/07/2019
MBA	Operations	01/07/2019
MBA	Finance	01/07/2019
MBA	HR	01/07/2019
MBA	IT	01/07/2019
MCA	MCA	15/06/2019

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

	Certificate	Diploma Course
Number of Students	682	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
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No Data Entered/Not Applicable !!!

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Engineering	60
BE	Electronics & Telecommunication Engineering	47
BE	Electrical Engineering	128
BE	Information Technology	39
BE	Mechanical Engineering	76
MBA	MBA	174
MCA	MCA	99
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Analysis and utilization of feedback for the overall development of the institution The PES MCOE Institute has a well-established feedback mechanism which is one of the essential elements of providing a professional learning environment to gather and analyze various feedbacks based on predefined parameters. The Institutional feedback system aims to understand stakeholders' perceptions, expectations, and their views about what has contributed to their development. Institute feedback mechanism A feedback mechanism is reflected in many forms. The feedback is the reflection of the teaching-learning process and curriculum development. It also clarifies areas of improvement and provides the opportunity for self-assessment. The feedback process in the Institute is designed in the following manner:

- Designing feedback questionnaires with parameters defined by the IQAC for obtaining stakeholder view.
- Scheduling of various types of feedback in the Institute academic calendar and departmental academic planner. Feedback is collected either online or offline
- Collection of feedback periodically as per schedule.
- Analysis of each type of feedback at the department and Institute level
- Communication of analysis to the IQAC for discussion on action to be taken.
- Implementation of corrective measures at department and Institute level as per IQAC suggestions.

Stakeholders are broadly classified as Students, Teachers, Employers, Alumni, Parents Student as a stakeholder 1. Mid-Term feedback is obtained Once in a semester in the mid of the semester regarding Course delivery and Instruction methodologies 2. Course Exit Survey a. Parameters - Course outcome. b. Frequency - Once in a semester: At the end of the semester 3. End Term Feedback . Parameters - Course delivery

and Instruction methodologies. a. Frequency - Once in a semester: At the end of the semester 4. Feedback on facilities . Parameters - Campus facilities. a. Frequency - Once in a year 5. Graduate Exit Survey . Parameters - Program outcome. a. Frequency - Once in the final year. At the end of the semester Teacher as a stakeholder 1. Peer Feedback a. Parameters - Assessment of teaching parameters of faculty by their peer team. b. Frequency - Once in a semester: In the mid of the semester Alumni as a stakeholder 1. Alumni Feedback a. Parameters - Teaching-learning Facilities provided by the program and suggestions for improvement. a. Frequency - At the time Alumni meet Employer as a stakeholder 1. Employer Feedback a. Parameters - Competencies of alumni working with the employer b. Frequency - As and when required. Parent as a stakeholder 1. Parent Feedback a. Parameters - Teaching-learning Facilities provided by the program and suggestions for improvement. b. Frequency - Twice a year. At the time of the Parent-teacher meet.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2785	586	142	38	31

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
211	211	19	39	14	16
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

?The institute has established a Mentoring system to provide support and guidance to the students. It plays a vital role in the student's overall development. The objective of the Mentor-Mentee system is to facilitate students with academic, extra curricular, career guidance for their holistic development. ? Around 15 - 20 students as mentee are allotted to each faculty mentor, from the first year. These students are the mentees of the particular mentor throughout their engineering program, which helps to develop a bond between mentor and mentees. For effective implementation of the system the mentor-mentee meetings are pre-planned in the Institute academic planner. ? Each mentee's records are maintained by their respective mentors in the form of a Student's Profile Booklet containing academic performance, participation in co-curricular, extracurricular

activities and any other initiative for personality development. ? The Mentor-Mentee meetings are conducted thrice in a semester, based on the mentee's area of interest and technological trends, mentor provides guidance to improve academic performance, interpersonal skills, encourages students to participate in co- curricular, extracurricular activities which leads to overall development of the mentee. ? During this academic year, because of COVID 19 Pandemic, after 14th March till the term end, the online meetings were conducted several times to make the students comfortable for changed mode of Teaching Learning and Assessment. ? Expert sessions are organized regularly on the topics such as stress management, higher studies, health awareness, Yoga sessions and career guidance etc. ? Parent's Meet (Offline/Online) is arranged regularly, where mentors along with class in-charge interact with the parents and discuss performance and other issues of their ward related to online teaching and assessment. ? The mentors take full charge of their mentees and mentor them in the following areas: 1. Facilitates career exploration and development. 2. Improvements in behavior and regularity in academics 3. Developing self confidence 4. Improved peer relationships 5. Realizing the real value of life Benefits of a Mentoring System to mentees: ? Enhances the students' confidence and prepares them for setting goals, taking risks and ultimately guiding them to achieve success. ? Individual recognition and encouragement. ? Psychosocial support as per the requirement. ? Routine advice on balancing of academic and professional responsibilities. ? Mentors act as role models and facilitate leadership by developing interpersonal skills and helping students thrive in competitive environments. ? Mentees are developed to work in professional careers with social and ethical aspects. Outcome of the system With the mentoring system, ? Improved academic achievement of mentees. ? Increased their participation in various co-curricular and extracurricular activities. ? Opened up with mentors to share their personal issues (if any). ? Holistic development of mentees. ? Mentees with clear vision for their professional career and higher studies.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3371	211	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
177	211	Nill	Nill	23

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
No Data Entered/Not Applicable !!!				
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

? Continuous Internal Evaluation (CIE) is the internal mode of assessment. Academic calendar clearly specifies the period for internal assessment to take place during the semester. Evaluation system, adopted by the Institute, has two

components viz, 1. The CIE 2. The End Semester Examination (ESE). ? Prior to COVID 19, internal assessment was done in offline mode till 14th March 2020. After that, it was conducted in online mode. ? Various assessment tools are as follows: 1. Unit Test 2. Open Book Test 3. MCQ Test 4. Assignments 5. Tutorials 6. Quiz 7. Case Study 8. Field Visit / Study tour report evaluation 9. Group Project and Internal Viva-Voce 10. Group Discussion 11. Role Play / Story Telling 12. Individual Term Paper 13. Learning Diary 14. Scrap Book 15. Newspaper reading ? The question paper is set as per Bloom's Taxonomy. Quality of question paper is verified by the Domain/ Module coordinator/ Quality Assurance Committee. For Assessment and Evaluation of Internal Question Papers marking scheme/ ideal solution is presented and preserved by the course coordinator. Internal assessment is done by course coordinator as per assessment rubrics which are set for theory as well as practical sessions. Result analysis is done and attainment of COs is observed. Answer sheets are shown to the students for providing sufficient transparency, accountability and analysis for improvement. ? With various assessment tools, it helps the student to explore different learning resources which will enable them to develop self-study, analytical and reasoning capabilities.

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

? Institutional academic calendar and planner is prepared at the commencement of every term for smooth and scheduled conduction of academic and co-curricular activities. Adherence to the academic calendar is checked periodically. ? Objectives are, to execute all academic activities from term commencement to term conclusion and university examination schedules as per directives of Savitribai Phule Pune University, to execute all academic activities as per academic calendar and planner of the institute. ? It incorporates the schedules for 1. Term commencement 2. Registration of students 3. Periodic syllabus review 4. Periodic attendance review 5. Periodic internal and University assessments 6. Periodic various types of feedbacks 7. Schedule for Mentor Mentee meetings 8. Various meetings related to academics issues 9. Parent's meet 10. All co-curricular activities scheduling and execution ? This practice is continued at the departmental level by preparing departmental academic calendar/planner for Undergraduate as well as Post Graduate Programme. The academic activities are ensured as per the calendar. The execution report is prepared at every term conclusion so as to verify the adherence of all activities with academic calendar and planner.

2.6 – Student Performance and Learning Outcomes

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

<https://moderncoe.edu.in/part-b-criterion-2-6-1-19-20.php>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
No Data Entered/Not Applicable !!!					
View File					

2.7 – Student Satisfaction Survey

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

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
View File				

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Design Thinking- Seminar	MBA	24/09/2019
Adapting to disruptive changes at workplace- Seminar	MBA	25/09/2019
Personal Branding for Success- Seminar	MBA	10/11/2019
The Learning continuum - Creativity and Problem solving in a competency driven world- FDP	MBA	02/01/2020
A Seminar on Ethics in writing research paper-	MBA	10/02/2020
Cross Cultural Communication- Workshop	MBA	25/02/2020
"The Learning Continuum - A community of practice for knowledge sharing" Series 2: Using Excel Effectively-FDP	MBA	29/02/2020
Workshop on Writing A Business Plan	MBA	03/07/2020
Demonstration of Converting farm based organic debris into semi-Activated Carbon and making various products with it	UBA, PES MCOE, Pune	16/09/2019
Guest Lecture on Entrepreneurship by Mr. Datta Deshpande	ED Cell, PES MCOE, Pune	10/05/2019
My Story - Innovators life by Shirish Phadtare Converting plastic to poly Fuel	ED Cell, PES MCOE, Pune	10/10/2019
Three Days Workshop on	ED Cell, PES MCOE, Pune	06/01/2020

Entrepreneurship Awareness and Development		
Technical Activity "Rigorous Discrete Time Linearization Of Periodically Switched Circuits With Respect To Duty Cycle Perturbations" (Technical Activity)	Electrical Engineering	27/12/2019
A Session On Entrepreneurship Skill Enhancement	Electrical Engineering	10/05/2019
A session on financial Management	Electrical Engineering	21/09/2019
A session on Quality and Project Management	Electrical Engineering	10/09/2019
A session on interrupt programming and interfacing of PIC microcontroller	Electrical Engineering	31/08/2019
Inhouse Internship in Solar PV design and installation	Electrical Engineering	03/06/2019
Expert Talk on powersystem tariff and Electrical Bill reading	Electrical Engineering	29/02/2020
A session on HVDC system in association with MSEDCL	Electrical Engineering	26/02/2020
A session on ISO 50001 Energy Management system standard	Electrical Engineering	25/02/2020
A session on Recent trends in rotating machines	Electrical Engineering	27/02/2020
Electrical Safety Awareness Program	Electrical Engineering	30/01/2020
Syntel Project Training by Global Talent Track (GTT)	Electrical Engineering	17/12/2019
Workshop on Aurdino	Electrical Engineering	26/02/2020
Workshop on Hypermesh 13.0	Mechanical Engineering	28/08/2019
Workshop on Non Desuructive Testing	Mechanical Engineering	30/09/2019
Guest Lecture on Creative Engineering	Mechanical Engineering	20/07/2019
Guest Lecture on Industry 4.0 and Manufacturing Excellence	Mechanical Engineering	07/09/2019

Guest Lecture on Design Methodology and Fatigue Failure	Mechanical Engineering	17/09/2019
Guest Lecture on Recent Trends in Boilers	Mechanical Engineering	05/10/2019
Guest lecture on Industry 4.0	Mechanical Engineering	24/01/2020
Two days technical workshop AUTOWEGAN 3.0 (PEGASUS CLUB)	Mechanical Engineering	20/09/2020
A Session on Software Defined Radio	ENTC Engineering	28/09/2019
Training program on Hardware and networking	ENTC Engineering	16/12/2019
Lecture series on Finance and Project management	ENTC Engineering	21/01/2020
Hands on training on Arduino	ENTC Engineering	06/02/2020
Two Days Workshop on Open Source Software Management Testing Tools	Computer Engineering	24/02/2020
Two Days Workshop on WebApp development using PHP and MySQL	Computer Engineering	28/02/2020
A Session on "Research Topic Selection Writing Skills"	Computer Engineering	23/05/2020
Session on Corporate Ethics	IT Engineering	07/03/2019
Session on Importance Of Japanese Language And Career Opportunities In Japanese Language	IT Engineering	07/06/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nil
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	2	30

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

Name of the Department	Number of PhD's Awarded
Electrical Engineering	1
ENTC Engineering	1
Master of Business Administration	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
No Data Entered/Not Applicable !!!	
View File	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
View File						

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

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!				
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!			
View File			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!				
View File				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
View File			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
60629900	51381184

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SLIM 21	Fully	3.6.0	2006

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
View File			

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	1140	37	1140	1	1	32	1108	215	40
Added	0	0	0	0	0	0	0	0	0
Total	1140	37	1140	1	1	32	1108	215	40

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

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
LMS Moodle(server version 3.3.), Web site creation (Word press),Video lecture Creation	https://www.moderncoe.edu.in/dist/documents/19-20-aqar/4.3.3%20Facilty%20for%20E%20content%202019-20.pdf

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
677100	555018	5945500	5081656

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

• Purchase Purchase of all the equipment, software and consumables of department is through the purchase committee. Term wise list of requirement of equipment, software and consumables are prepared by all HODs and submitted to Purchase Committee with list of vendors. The priority is decided by Purchase Committee considering the factors like previous stock, urgency, budget etc. The Institute has a well-defined and transparent process for purchase. • Dead Stock Register(DSR)and Write off Stores Department maintains Central DSR and it is duly signed by Stores In charge, Internal Auditor and Principal. One copy of the Purchase order and its bill is sent from Account's section to Stores for Central DSR numbering and it is transferred to Department DSR. Each department maintains supporting file with all verification and testing reports and copy of POs. Department level DSR's are duly signed by HOD's and Principal. Physical Stock verification and DSR entries along with the detailed report are submitted to Principal before end of every Academic year. The policy of the institute is to ensure that all the equipments are maintained in good working condition during the life of the asset. If any equipment is not repairable, due process is followed before declaring it as scrap. • Maintenance Maintenance is done to enhance the useful life of the equipment, minimize the total operating costs directly attributed to equipment service and repair and enhance the safety of manpower. Maintenance is done of Equipments, Furniture and Workshop either by in house or external agency. All department labs are supervised by lab in charges who oversee the work of the technical/ lab assistant. The maintenance of the lab including resolution of minor problems is carried out by the technical/ lab assistant. In case of any major problem, the authorized agency appointed for troubleshooting is contacted for carrying out the repairs. At the end of each term the report related to preventive maintenance of the equipment in each laboratory is prepared. Besides this, Civil and other infrastructural maintenance is taken care of by the committee as and when required through clear procedures. The Institute also has annual maintenance contracts with agencies for ongoing housekeeping and maintenance.

<https://moderncoe.edu.in/dist/documents/19-20-aqar/4.4.2%20Maintanane%20procedure%20and%20Policy%202019-20.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	PES Employees wards scholarship	1	8839
Financial Support from Other Sources			
a) National	scholarships	1523	97932825
b) International	NIL	Nill	Nill
View File			

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
No Data Entered/Not Applicable !!!					
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
52	52	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to

No Data Entered/Not Applicable !!!

[View File](#)

5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	
View File	

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
View File						

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

The aim of forming Student council is to involve the students in academic, administrative, co-curricular and extracurricular activities. It nurtures students growth with various activities by making them ethical individuals to compete in the globalized world. Objectives of the Student Council at our Institute are as follows: 1. To create a platform for enhancing the students managerial, decision making, leadership, social and cultural skills. 2. To encourage and motivate the students to plan and execute programs, activities and events conducted at various levels. 3. Identifying student representation for various college committees. 4. Applying the knowledge imbibed for adopting sustainable practices. 5. To imbibe responsibility towards societal, environmental, legal and cultural issues for life-long learning. Student Council is constituted by Institution as per the provisions of Maharashtra Universities Act, 1994 and a student shall be eligible to be, a member of any of the Students' Council, only if he/she is enrolled as a full time student.

Benefits of Student Council:

- Each student is allotted portfolios based on individual assessment and interviews conducted.
- Students' Representative for each portfolio works as an important part of linkage between students and institute for administrative purpose.
- Students' Representation is also maintained in various administrative committees such as IQAC, Academic Monitoring, Anti-Ragging Committee, Grievance Committee and other student development activities.
- The student council promotes and co-ordinates the different institute level student activities like Professional Society Student Chapters, ED cell, department level student association, T P cell, M-Pulse, Art Circle, College magazine - Karmanya, NSS, Alumni activities, Institute Social Responsibility Cell (ISR), Sports and various student clubs for their overall development.
- It acts as a learn platform for the students to develop their organizational skills, personal skills along with execution, which help in their comprehensive development.
- Student members of the council also observe important days like National Festivals, Birth/Death Anniversaries of important

leaders, International Women's Day, International Yoga Day, Sports Day, Sanvidhan Din, Teachers Day, Social initiatives - Joy of giving Week, Engineers day, Kargil din etc. to cultivate the spirit of civic awareness and culture building. Contribution of the Student Council in Academic Administration: The student council members help in the co-ordination of 1. Day to day academic activities. 2. Communicating the information between students and Teaching faculty 3. Conducting events like Seminars, Workshops, Symposium, National Level Conference etc. 4. Organizing Cultural events, Sports Games for the students

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

About MCOE Alumni Cell The MCOE Alumni Cell has been working actively since many years. We believe that every alumni of the institute has some useful knowledge to be shared among the current students of the institute. Therefore, MCOE Alumni Cell always tries to have interactions of alumni with the student in the form of seminars, guest lectures, evaluator for project competitions and many more. The cell has been successfully working to bridge the gap between Academic world and Professional world via such activities. All the alumni are enthusiastic and eager to contribute in every possible way they can. This positive approach shows their attachment with the institute and junior students. The Institute has number of alumni working in several streams and latest, upcoming technology. They know what exactly industry demands from the graduates. Through various modes of communication like guest lectures, judges for project exhibition, conducting workshops, DAB meetings and Alumni meets etc. these alumni convey the area to be emphasized from the point of view industry person and helps them to get better placement opportunity. This also helps students for getting project sponsorship and internship opportunities. Thus alumni network is continuously acting as a bridge between an Institution and the Industry. Alumni meet happens to be most interactive platform for students and Institute to exchange thoughts and ideas for students enhancement. Institutes alumni help students in all co curricular and extra curricular activities and events which contribute to the all round development of students. Alumni cell also helps our students to provide guidance in opportunities for pursuing higher education or even starting new business. As our alumni have gone to the corners of the world to pursue higher education, many students have started their own companies. These students inspire our graduates for betterment of own future. MCOE Alumni Cell strives for excellence with its motto of CONNECT , INSPIRE and GROW. Alumni are well connected with the students, they keep on INSPIRING students and students follow their path and eventually they follow the same chain. Thus the network keeps on GROWING with this practice.

5.4.2 – No. of enrolled Alumni:

1050

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

262500

5.4.4 – Meetings/activities organized by Alumni Association :

The MCOE Alumni Cell has been working pro-actively for the students since many years. It is said that alumni have a strong association with the Institute. Also they possess readiness to share their updated knowledge about Industry and experience with the students. There are number of avenues through which alumni can interact with the students. The MCOE Alumni Cell thus conducts activities

like workshops, seminars, guest lectures, online sessions, evaluation of project competition and many more. It is utmost important to fill gap between academics and Industrial requirement. The sessions conducted through alumni activities are the efforts to bridge the same. There are so many alumni working in various fields and using updated technology. Alumni have reached in almost all the corners of the world. They always try to impart knowledge and share opportunities for jobs, internships or even suggest appropriate post-graduation courses for the junior students to enhance their skills. Alumni Cell plays a vital role in organizing and executing these activities. Through various modes of communication like guest lectures, judges for project exhibition, conducting workshops, DAB meetings and Alumni meets etc. these alumni convey the area to be emphasized from the point of view industry person and helps them to get better placement opportunity. This also helps students for getting project sponsorship and internship opportunities. Alumni meet happens to be most interactive platform for students and Institute to exchange thoughts and ideas for students enhancement. Institutes alumni help students in all co-curricular and extra-curricular activities and events which contribute to the all-round development of students. Many Alumni have pursued higher education in abroad as well as in India. Also many have become entrepreneur in technical fields. A lot of alumni are working in fields like Media, Management, Government Sectors, Finance etc. Thus Alumni Cell tries to introduce our students with the wide spectrum to follow their career path. MCOE Alumni Cell strives for excellence with its motto of CONNECTS, INSPIRE and GROW.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

? The Principal, of the institute is supported by the Management to fulfil the vision and mission of the institution. All major policy decisions are implemented in the institute after the approval of the College Development Committee and Board of Governors. Academic responsibilities are fairly divided among all the staff members. Different committees have been constituted for smooth functioning of various academic and co-curricular activities. The list of committees is displayed at the beginning of the year. This ensures transparency in policy execution. The responsibilities are communicated to the faculty members. The Principal holds regular meetings with the teaching and nonteaching staff to discuss academic and administrative points and arrive at a decision. The Heads of Departments monitor the functioning of their respective department. The office administration of the College is managed by the Office Superintendents who in consultation with the Principal co-ordinate the day-to-day activities. The Techno-management event MPulse , activities under VKM , NSS is coordinated at central level, and organised by all the departments.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	All programs run by the Institute follows the curriculum of Savitribai Phule Pune University. The Institute follows credit system for UG courses and choice-based credit system for PG

courses wherein there is a flexibility to design various academic activities and selecting choice based extra credit skill-based courses. Value added courses, certification courses, choice of electives, audit courses are offered to the students keeping in view the demographic diversity and socio-economic background.

Teaching and Learning

The teaching - learning process is facilitated through qualified, trained and experienced faculty and are continuously monitored through a feedback mechanism. The feedback on the teaching and learning process is reviewed by head of the department for and is communicated to the concerned teaching faculty who then plans for improvements. All departments adhere to the academic calendar prepared for that particular year. Teaching plan, ARB, Course files are prepared for every course to monitor effective course delivery. Faculties adopt a variety of teaching learning techniques such as Project based learning, traditional chalk talk, ICT based teaching tools etc. Choice based and open electives have been offered to students .Apart from class-room teaching, students are encouraged to use library and internet facilities.

Examination and Evaluation

The College Examination Officer (CEO) is appointed by the Principal of the Institute for proper management of examinations and to act as the interface between students and the University for Smooth Conduct of the examination. Proper care is taken to avoid unfair practices in the examination as per university rules. Examinations are conducted smoothly by making necessary administrative and infrastructure provisions. Committee addresses issues of students during examination and co-ordinates solutions for the same. Exam related student grievances are taken care of and conveyed to the University on a timely basis. Examinations are conducted smoothly by making necessary administrative and infrastructure provisions. This year due to pandemic online examination were also conducted.

Research and Development

Research has been considered as an important integral part of the academic endeavours in our institute.A Research

Committee is appointed to strengthen and motivate the faculty members for improving and enhancing the standards of learning and research. Under this committee faculties' research projects as well as students' research projects are encouraged and given support for better outcomes. Institute organizes National, International conferences, symposium and workshops annually to promote research activity in the institution. The teaching staff is appraised, acknowledged and felicitated for their research paper publications in national and international journals and after completion of Ph.D. during CDC Meetings, Founder's Day, and annual functions of the society for encouragement and motivation

Library, ICT and Physical Infrastructure / Instrumentation

Library, ICT and Physical Infrastructure / Instrumentation
 Library: Library is rightly regarded as the heart of an academic institution. Our Library is a knowledge hub with wide range of text books, reference books, journals, e-books, magazines, e resources and so on. SLIM 21 software is used for automation. Subscriptions to journals, e-journals and e-books as per the requirement of all departments are available. The library is having linkages through the institutional membership with British Library, Jayakar Library, Automotive Research Association of India (ARAI), Developing Library Network (DELNET) and National Digital Library of India. Library provides benefits to the students such as social welfare book bank for SC/ST category students and book bank for needy students. Apart from this, the library also provides facilities like one day issuing of reference books, extra two books issue facility to encourage regular users of the library. It also has digital library with Wi-Fi facility, audio video lab for watching NPTEL video lectures, language lab and so on. ICT : The ICT committee works for providing support for E-Learning, Online Courses, Webinar, Software training and workshops, Moodle platform, Google functionality, Language Lab, Audio-Visual Lab. ?
 Physical Infrastructure: Purchase of all the equipment, Soft wares, Consumables of department is through the purchase committee on the basis of

requirement submitted by the departments. The priority for purchase is on the basis of factors like previous stock, syllabus requirement, budget etc. The Institute has a well-defined and transparent process for purchase. Physical Stock verification is done at the end of every academic year. Regular maintenance is done for equipment, Furniture and Workshop either by in-house or external agency. Minor problems are attended to in house. The Institute also has campus security using surveillance cameras and canteen facility.

Human Resource Management

Faculty and staff requirements are assessed and recruitment is done through duly constituted selection committees. Staff Development Programs are conducted for skill building and to ensure a healthy work environment. To upgrade and enhance the standards of academic environment, teaching faculties are encouraged to attend various refresher, orientation and Short Term courses. Teaching faculties are given On Duty Leave to participate in national and international conferences, workshops, University examination related work, paper presentation etc. Many welfare schemes are implemented for the staff.

Industry Interaction / Collaboration

The Institute's Industry Interaction Cell continuously strives for networking with industries representatives for placements, internships, suggestions in the curriculum development and other academic activities. The Institute has signed MoU's with many reputed companies for value added courses, Certification courses, internships, incubation centres and projects, arranging guest lectures etc. Apart from this they are also associated with CII, MCCIA, PMA and many more organisations as a member to improve industry academia linkages.

Admission of Students

Our admissions are done strictly as per DTE, Government of Maharashtra mandate as per CET / JEE scores through Centralised Admission Process as well as through Institute Level Quota

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

E-governance area

Details

Planning and Development	The Institute has a central server room to take care of the networking needs. E Governance is implemented in the areas of employee administration, Student data management, accounting and library management for smooth operations in the Institute
Administration	Library Management is done through 'SLIM 21' software. The Institute has started using E-reader devices to motivate reading practices. Student Management System (SMS) to manage students' data, Tally accounting software in the office, CCTV for security, Bio-Metrics for employee attendance were implemented. College domain ID's provided for Staffs.ERP is implemented for all administrative work for staff and students.
Finance and Accounts	Tally Software is used to maintain records of all finances of the Institute.
Student Admission and Support	MIS has been implemented for maintaining student records. Different forms such as bonafide, NOC, application for transcript are provided to the students on the website in the download section .Student feedback has been taken through software. All administrative work is carried out through effective ERP implementation.
Examination	Circulars and notices and the time tables and announcements regarding examination has been shared with the students through ERP and on groups beside display on the notice boards

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
View File				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

		staff				
No Data Entered/Not Applicable !!!						
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
191	211	83	104

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Health Insurance, Contributory Provident Fund, Accident Cover, Fee concession for wards, Gymkhana, Canteen	Health Insurance, Provident Fund, Accident Cover, Fee concession for wards, Gymkhana, Canteen	Scholarships, Earn and Learn Schemes, Book Bank Scheme, Accident Cover, Gymkhana, Canteen

6.4 – Financial Management and Resource Mobilization

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

<p>The Institute has very effective mechanism to monitor effective use of financial resources. Expenses are first sanctioned by the Principal. The Principal of the Institute ensures that expenses are incurred for the purpose of implementing institutional plans. For any requirement for equipment or other major items, requisition is submitted to purchase committee which is headed by the Principal. Purchase committee invites tenders from various suppliers. Their quotations are evaluated, comparative statement is prepared, suppliers are called for personal discussion and after comparing all aspects from various suppliers, orders are placed. This ensures that right equipment is purchased at most competitive price. Budget is prepared at the beginning of the year and actual expenses incurred during the year are compared with budget and any major variation is discussed by the principal with concerned person. The accounts are audited regularly as per the Government rules. Internal audit is conducted after every six months .The internal auditor checks receipts with fee receipts and payments with vouchers and necessary supporting. He also ensures that all payments are duly authorized. The external auditor conducts statutory audit at the end of financial year. Internal and external auditors are appointed by parent institute. Audit report and audited statements of accounts are discussed in College Development Committee and also submitted with Governing Council. Queries and suggestions are resolved satisfactorily.</p>

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
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No Data Entered/Not Applicable !!!

[View File](#)

6.4.3 – Total corpus fund generated

45000000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nill	Yes	Academic Planning Committee
Administrative	Yes	Shirish K.Inamdar CA, Membership No. 038833	Yes	Parent Institution

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

The institute does not have registered Parent – Teacher Association, but parents being important stakeholders are involved in overall activities of the Institute. Every year first year students' parents are invited for the Induction before the term commencement for orientation about academic activities, discipline, co-curricular activities and extra-curricular activities. In order to involve the parents in the academic and overall development of their wards, parents-teacher meet is organised in every semester at all the departments. Parents are also invited to conduct sessions, judge the event, providing platform for Industrial visits, Project sponsorship and internships. Parents are also part of various advisory committees like Department Advisory Board , Anti- ragging committee, etc.

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

In order to upgrade the technical skills of Technical Assistants department has taken various initiatives as listed below: Industrial Visit To I-Medita, Pune organised on 9th October 2019. Sophos XG-430 Firewall Device training provided on 20th November 2019 Digital Transformation in Education and Microsoft Edu-Cloud training conducted on 28th April 2020

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

The institute has successfully implemented ERP system. The institute has been sanctioned grant -in -aid of Rs. 19,88,591/- from AICTE for SPDC Centre for Skill and Personality Development for SC/ST students. Improvement and maintenance of infrastructure and providing facilities has been increased. Usage of ICT in teaching and LMS, is increased during the year.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Yoga Session for Women's	21/06/2019	21/06/2019	10	10
Debate on Its Girl thing or Boy thing	29/01/2020	29/01/2020	25	15
Celebration of Krantisurya Savitribai Phule Jayanti	03/01/2020	03/01/2020	34	24
Celebrating Women Entrepreneur	03/09/2020	03/09/2020	43	48
Knockdown The Lockdown (Fitness Challenge) Webinar	06/07/2020	06/07/2020	34	37
Women's day celebration	03/11/2020	03/11/2020	42	53

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

Percentage of power requirement of the University met by the renewable energy sources
<p>• Environmental Consciousness To inculcate the environmental consciousness among the students various activities are undertaken. The departments have clubs like "Paryavaran Sanrakshan Club" which create awareness about the preservation, restoration and/or improvement of the natural environment amongst the students. Many activities to promote ecofriendly environment are conducted on regular basis. • Activities conducted for Environment Consciousness in AY. 2019-20 are : ? RO Plant Visit ? Collage Making Competition (Theme: Save Earth, Save life) ? Eco Friendly Ganpati idol Making ? Seminar on Plastic and Planet by rudra Foundation ? Plastic-waste free india Campaign ? Workshop on Solar Lamp Making ? Neem Sapling Distribution ? Tree Plantation ? River Cleanliness drive ? Plastic Collection Drive • Alternate Energy Initiatives: For Sustainable environment it is necessary to increase use of alternate energy. Final year students are encouraged to undertake projects related to alternate and renewable energy sources. These projects would help to improve generation and utilization of energy through renewable resources. • Percentage of power requirement of the College met by the renewable energy sources Power requirement met by renewable energy sources - 7.5kW Total power requirement- 200kVA Renewable energy source- Solar PV • Percentage of annual lighting power</p>

requirements met through LED bulbs Total Lighting requirements- 45 KVA
Percentage Lighting through LED bulbs - 60 Percentage Lighting through other
sources- 40

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Any other similar facility	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
View File							

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

Title	Date of publication	Follow up(max 100 words)
Code of Conduct	15/06/2020	The Student rules and regulations are designed to promote academic discipline and good behavior of students who are admitted in the institute. The student behavior, Ethical practices is monitored by Teaching and Non-teaching staff. Various committees such as Grievance Redressal Committee, Internal Complaint Committee, Committee for SC/ST, Anti Ragging Committee are formed in the institute to address the student issues. Students who violate these standards are subject to disciplinary actions in order to promote their own personal development, to protect the individual rights, and to maintain

order and stability on campus.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
View File			

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

1. Energy Conservation ? The institute does Energy audit periodically by BEE approved energy auditors. ? The institute has taken initiative to use LED street light and CFL for common lighting inside the institute. ? Campaigns are conducted by staff and students for Electrical safety and power savings. ? The institutes building is L shaped and fitted with glass windows, thus providing maximum utilization of natural light. ? All Class rooms are properly ventilated. ? The institute has switched to the power saving CFL and LED lights from the Old Fluorescent Tubes at various locations. ? The institute's bio-gas plant processes about 50kg wet garbage per day, which is used by the college canteen. The resultant slurry is used in vermiculture plant. 2. Use of renewable energy ? A 2kW Solar photo-voltaic cell is used for charging UPS batteries in the Seminar Halls. ? The institute has a waste water treatment plant of 20000 litres capacity. The water processed is used for garden and washrooms. 3. Efforts on Carbon neutrality ? Carbon-di-oxide emission percentage check is carried out during energy audit. ? PUC camp is arranged regularly. ? Vehicle free day is organised in the campus. ? The use of plastic bags is restricted in the institute. 4. Hazardous Waste Management ? The institute conducts various programs and awareness campaigns on waste management. ? The institute has a tie-up with the Pune Municipal Corporation for disposal of various types of waste generated. The waste is categorised in the campus into hazardous and non-hazardous and collected by the Municipal Corporation. ? The institute is committed to make the campus Plastic Free. 5. e-Waste Management ? The Institute authority has initiated Awareness programme on e-waste management. ? The obsolete computers or products are donated to the agencies, schools where those can be used. ? The non-working computer spare parts and other non-working equipment are safely disposed outside through the Pune e-waste Agency. ? The cartridge/tonners of printers are refilled outside the Institute campus through vendor instead of throwing the empty cartridge/tonners.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE 1: 1. Title of the Practice: College Community Connect 2. Objectives of the Practice: • To inculcate ethical standards and create awareness of social responsibilities. • To raise awareness and promote the adoption of sustainable practices towards the environment and society among staff and students. • To develop an institutional social action programme to link and involved different groups in our community and offer different means of collaboration. • To raise awareness and promote the adoption of habits and behavior by students, faculty, administrative and services staff, in line with a more sustainable vision of the organization. 3. The context: PES Modern COE, Pune is committed to social responsibility, a concept that includes the dimensions of social responsibility whose strategic focus is made up of social and environmental responsibility, ethics and sustainability. We believe that these three dimensions should be incorporated and integrated, in an interdisciplinary manner, aligned with our mission, identity and daily activities. Faculty and students are encouraged to participate in collaboration

with other organizations in carrying out social outreach programs. 4. The Practice: The Social Responsibility committee provides the broadest forum available, for members and students to discuss common issues of social responsibility. It identifies issues which have an impact on society and the environment. Committee discusses and develops best practices and plan of action in response to specific issues beneficial to society. The ISR Cell is expected to motivate the student youth to understand the values and philosophy of ISR. The overall functions of committee members are to help the students to plan, implement and evaluate the activities of ISR under his/her charge and give proper guidance and directions to the student volunteers. The College Community Connect involves extension and outreach activities. It is carried out via different channels of the institute such as various Social clubs, National Service scheme (NSS Cell), NCC and ISR cell.

- Institutional Social responsibility (ISR) Cell : ISR Cell has conducted the covid-19 awareness campaign for society. Many activities such as Covid 19 Awareness campaign Quiz competition, Covid-19 awareness video has been conducted.
- Participation in Ignited Innovators of India (i2i): A social entrepreneurship initiative by incubation center at COEP for students of Maharashtra is aimed at providing a platform to students to exercise leadership in social entrepreneurship and technological innovation.
- Techno-Social Clubs, Professional Society Chapters, NSS, ISR Cell, Art Circle are formed to implement various community connect program and activities.
- Rotaract club of MCOE: Rotaract club is a part of global effort to bring peace and international understanding to the world. This effort starts at the community level but knows no limits in its outreach. Rotaractors have access to the many resources of Rotary International (RI) and its parent club Rotaract club of Pune Sinhagad road. Rotary club of Pune Sinhagad Road provides the administrative support that helps this club thrive.

5. Problems encountered and strategies adopted to overcome them:

- Building a socially responsible mindset requires a constant efforts for attitude transformation in student community.
- Program funding is a considerable challenge as the Connect program competes with human basic need priorities. Institute provides diversified opportunities to students in college to develop their personality through society beneficial services.
- Community services rendered by college level students have covered several aspects like sanitation awareness events, mass tree plantation, technology transfer programs, implementing engineering technologies for rural development, various technical training programs for self-help groups and rural youth etc.

6. Resources Required:

- Collaboration with industries, Government organizations and NGO's to support community connect programs.
- College Infrastructure
- Funding for various community connect activities

7. Evidence of success:

- NSS Activities successfully conducted during the year
- 1. Traffic awareness program
- 2. River cleanliness drive
- 3. Plastic collection drive
- 4. Kolhapur- Sangli flood relief donation drive
- 5. Tree plantation
- 6. Neem sapling distribution
- More than 50 students have got NSS Certificate's for Covid 19 awareness campaign
- 50 students have got NSS blood donation Camp certificates
- Achievement certificates of NCC volunteers.
- 1. All India Vayu Sainik Camp (National) CUO Shivam Shete - Best Air Contingent [National Champion 2019], Gold medal in drill, Gold medal in Tent Pitching, Gold in Academics
- 2. C/Sgt Riya Kapatkar - Best Air Contigent [National Champion 2019], 4th position in control line Aeromodelling, IGC (State)-Gold medal in Control Line
- 3. CWO Rajkumar Jadhav -Republic Day Camp- RD Parade -2nd Best directorate in India, Participated in PM Rally, IGC - State Champion

BEST PRACTICE 2: 1. Title of the Practice: • Innovation and Creativity

2. Objectives of the Practice:

- To encourage a mindset of continuous learning, creative thinking and increased innovation.
- To provide tools and techniques for promotion of innovation , creativity and implementation
- To help make the connections between theory and practical.
- To recognize, reward and celebrate new ideas.

3. The context: • To enhance the research and innovation quotient in the Institute it was decided to engage in a

number of activities, define policies and procedure for encouragement of creativity and innovation. • This is in alignment with Institute mission to foster innovation and research by providing a stimulating learning environment and to be responsive to changes in technology, socio economic and environmental conditions. 4. The Practice: The atmosphere of innovation and creativity is proposed to be improved by a multipronged approach including facilities up gradation, establishment of cells to monitor and provide funding to encourage the initiatives. • Infrastructure facilities: Innovation labs, Book Bank scheme, Reading hall, smart class rooms are provided to facilitate Innovation and Creativity among the staff and students. • The Research Innovation Cell: The faculty and students undertake research projects in the thriving areas of science, engineering, management and technology. Apart from conducting projects in fundamental areas, many RD projects are executed to tackle live problems. Faculties of various departments have received funding from agencies like SPPU, BCUD, AICTE, MHRD etc. The institute aims to forge academic and research collaborations with reputed institutes and industries. • Entrepreneurship Development (ED) Cell: Following are the initiatives under ED Cell. PRO-START: Pro-Start is a merger of project and a start-up. Pro-Start aims to promote and upraise ideas of students (budding engineers) towards their start-ups. Vicharghan: In Vicharghan entrepreneurs and experts in different areas of are invited to share their knowledge on different subjects. Participation in Ignited Innovators of India (i2i): A social entrepreneurship initiative by incubation centre at COEP for students of Maharashtra is aimed at providing a platform to students to exercise leadership in social entrepreneurship and technological innovation. • Institution Innovation Council (IIC): PES's MCOE has established Institution Innovation Council (IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India. • Unnat Bharat Abhiyaan (UBA) 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(2018-19). • Different Clubs, Professional Society Chapters, M-Pulse (A Techno-Management Event) , NSS, ISR , Art Circle are formed to implement creative ideas of students. • Participation in Smart India Hackathon to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. • Project Funding Scheme of PES's MCOE: PES's MCOE has initiated project funding scheme since 2018 to encourage students from engineering and management disciplines to undertake project / research / development work which will be helpful to the Institute and society at large. • Rewards and appreciation: ? The Institute policies are framed in such a manner to encourage participation in FDP's and pursue research. ? Achievement in the area of research, publication are appreciated and rewarded. ? Student who display innovation and creativity in their projects and other extracurricular activities are appreciated and felicitated. 5. Problems encountered and strategies adopted to overcome them: • Building a research oriented and creative mindset requires a constant efforts for attitude transformation in student community. 6. Resources Required • Collaboration with industries and renowned research institutes is required. 7. Evidence of success: • Principal Dr. Mrs. K. R. Joshi has been awarded Best Innovative Teacher Award by Savitribai Phule Pune University, Pune • The Institute has received four star ratings towards contribution of Innovation cell at PES's MCOE by MHRD's Innovation Cell. • E-Yantra laboratory is established in association with IIT Bombay. • Project groups from Third year and Final year of respective departments from the institute had received funds for their respective projects under each of the above mentioned scheme. • The institute has also promoted and funded students and faculty members to file patents and

copyrights. So far 38 copyrights and 25 patents have been filed. • Students have won prizes against various categories of Smart India Hackathon

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

<https://moderncoe.edu.in/dist/documents/19-20-agar/7.2%20Institutional%20Best%20Practices%20A.Y.%202019-20.pdf>

7.3 – Institutional Distinctiveness

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

The Vision of the Institute focuses on creating high values and standards for the improvement of community living. The Institute focuses on creating a collaborative academic environment with Holistic development of the students. The institute aim to develop outstanding professionals with high ethical standards capable of creating and managing global enterprises. One distinctive approach is to apply the knowledge efficiently and effectively with concern for societal, environmental, and cultural aspects relevant to professional computing practices. Institute is committed to quality and excellence in all its activities-teaching, research, training and extension. To achieve these goals, students working on BHAU (incubation Centre at COEP) projects under Develop Village Develop India program where they design and evaluate solutions to meet specified needs and problems. We have taken initiative under IT awareness program in which activities like creating awareness on the role played by technology to improve the socio-economic status of women and school students. Various Lectures and seminars on social issues conducted under program such as Social-Talk, Vicharghan lecture series, Wisdom tree lecture series to stimulate personal and professional growth through discussions about attitudes, feelings, and experiences related to the field of community and justice services. The spirit of mutual work, discipline, social responsibility towards community development and nation building is inculcated through ISR Cell, NSS and various technical social clubs in the institute. The programs initiated by institute for upliftment of society Develop Village Develop India The Program aims to develop and design community based integrated sustainable development module for villages near Pune city like model villages, with improved health, nutrition, and sanitation and livelihood status with focus on women, Children and youths. It includes intervention in maternal child health, hygiene sanitation, training for computer English classes and income generating activities, safe drinking water, and protection of the village environment. We believe that, the villages in India forms the major portion of India. The rural community makes more than 80 percent of India's population will affect the whole nation. The development of villages is largely dependent on education and yet cannot do without the best education possible. The first thing that catches our attention is the widespread illiteracy and ignorance among the rural areas in India. ? Cleaning village and removing plastic from village ? Reuse of plastic by making plastic bricks and paper bags ? Digital learning and Basic English learning to the students in 1st to 7th standards ? Opening Bank accounts of school students and Career guidance program ? Medical checkup of the people in the village ? Rain water harvesting plant We have focused on following areas for rural development. We believe that, the villages in India forms the major portion of India. The rural community makes more than 80 percent of India's population will affect the whole nation. The development of villages is largely dependent on education and yet cannot do without the best education possible. The first thing that catches our attention is the widespread illiteracy and ignorance among the rural areas

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

FUTURE PLAN • To encourage and facilitate the faculty to develop innovative teaching methodologies using ICT • To focus on skill development of students for enhancing student employability and increased placements. • Supplementing classroom teaching with greater numbers of MOOC/ online certification. • To enhance infrastructure facilities for blended teaching and proposed additional intake for new courses. • To encourage faculty and students to undertake innovative research project to meet the need of society and publication of work in reputed journals or under IPR. • Improving Industry Linkages