



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		ATHARVA COLLEGE OF ENGINEERING
Name of the head of the Institution		S. P. KALLURKAR
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		022-40294949
Mobile no.		9970184557
Registered Email		ace@atharvaeducation.com
Alternate Email		rajendramahajan@atharvacoe.ac.in
Address		SR NO.263 PLOT NO.8-12,CHARKOP NAKA, MALAD MARVE ROAD
City/Town		Malad west Mumbai
State/UT		Maharashtra
Pincode		400095

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		PRAGYA JAIN			
Phone no/Alternate Phone no.		02240294949			
Mobile no.		7666607071			
Registered Email		ace@atharvaeducation.com			
Alternate Email		pragyajain@atharvacoe.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.atharvacoe.ac.in/wp-content/uploads/AQAR-2018-19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://www.atharvacoe.ac.in/academic-calender/			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.2	2018	03-Jul-2018	02-Jul-2023
6. Date of Establishment of IQAC			28-Jul-2015		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	
IEEE TECHITHON 2019		09-Oct-2019		98	

	24	
ATHARVA HACKATHON	02-Jan-2020 24	207
IEEE Conference	18-Feb-2020 8	102
STTP WORKSHOP(AICTE-ISTE approved)	25-Nov-2019 8	30
One week FDP on CYBER SECURITY	03-Sep-2020 8	112
EDUCATION 4.0 SEASON 1(OHLINE)	28-Apr-2020 4	3252
EDUCATION 4.0 SEASON 2(OHLINE)	28-May-2020 4	2995
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mahendra Patil	MinorResearch Grant Project project	Mumbai University	2019 8	25000
Suvarna pansambal	MinorResearch Grant Project project	Mumbai University	2019 8	25000
Sachin Gavhane	MinorResearch Grant Project project	Mumbai University	2019 8	25000
Atharva College of Engineering	DSTNIMAT	EDII, Ahmedabad	2019 8	20000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. INNOVATION MELA 2019 2. STTP WORKSHOP(AICTE/ISTE approved) 3. ATHARVA HACKATHON 2019 4. INTERNATIONAL CONFERENCE(IEE) 5. EDUCATION 4.0 SEASON 1(ONLINE) EDUCATION 4.0 SEASON 2(ONLINE)

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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
Technical Events	1) ATHARVA HACKATHON 2019 2) STTP WORKSHOP(AICTE-ISTE approved) 3) IEE TECHITHON 2019
Enrichment in Research and Paper publications	IEE CONFERENCE(ICCDWE)
Entrepreneurship	ICELL, INNOVATION MELA 2019
Marching towards Excellence	EDUCATION 4.0 SEASON 1(ONLINE) EDUCATION 4.0 SEASON 2(ONLINE)
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14. Whether AQAR was placed before statutory body ?	No
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15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	02-Apr-2018
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	24-Jan-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Management information system Information is one of the most
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important resource of the organization that have an impact on all the other resources. The growth of the educational institute depends on the proper utilization of resources. Management information system is designed for administration and management of education organization. Information is available at finger tips to make fast decision and execution. Every organization has plenty of data but they lack from relevant information required for making the decision. Information required for decision making should be easily available. Collection of data, its conversion to the information, proper storage of information, retrieval of information and effective utilization of information need Management Information System popularly known as MIS. Management Information System is a computer based system. It is a very strong tools available to hierarchy for planning, organizing, executing, monitoring, control and evaluation of their operations efficiently. MIS Facilitates effective communication. Atharva MIS enables the authorities to adopt multidisciplinary management approach considering all the aspects relating to operational, financial, materials, behavioral, organizational practices and policies and students related issues. All the different departments has separate software to prepare the database. Finance and Accounts department has tally software, Admission department has separate system to collect the data, library has Library MICM Net Solutions , exam section has Khushi Software , Administration has separate database. The work of integrating all the database from the different departments is in pipeline. Atharva Website and Atharva App provides all the basic information like the complete information of the institute, branches, intake, fees structure, admission process, vision and mission, messages of higher authorities, infrastructural details, accreditation and quality details, Academic Details, library, faculty details, feedback, scholarship, free ships details, research, paper publications, research facilities, projects, findings, placements,

industry institute interactions, NSS, cultural, and sports details, different committees, alumni association details and all the day to day notices. The Organizational structure of Atharva college of Engineering divided in three layers of hierarchy: top management level (BOG), middle level (Principal, vice principal,) and lower level of hierarchy (HOD, faculty member and nonteaching staff) Each level takes decisions according to their roles. The lower level of hierarchy is involved in operational decisions, middle level hierarchy focuses on the tactical decisions and top level hierarchy concentrate on strategic decisions. Most of the routine activities are planned, executed and managed by lower level hierarchy, for example planning, scheduling and ensuring that all the plans are implemented as decided. Middle level hierarchy spend relatively less time on the routine planning activities and focus more on tactical decisions such as problem solving, gap analysis, performance appraisal and advertising. The role of top hierarchy is very different than the lower level and middle level hierarchy. They mostly concentrate on the strategic issues like to decide the policies to run the institute, to upgrade the infrastructure, budget, innovative concepts, to upgrade the intake, etc.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

Being the affiliated institute, the institute implements the curriculum prescribed by University of Mumbai (MU). For effective implementation of the curriculum, the following process is developed and deployed. Plan for effective implementation of curriculum: • Before commencement of every academic year, Principal along with HoD's, VP's & Student Council of the institute prepares the academic calendar, in accordance with academic calendar of University of Mumbai (MU). • The academic calendar is circulated to all departments. • Every department in turn prepares its academic calendar which includes planning of industrial visits, workshops, seminars, guest lectures in addition to activities mentioned in institute academic calendar. • Head of each department allocates the theory and laboratory courses to the teachers based on their expertise and choice. • The department timetable coordinators prepare timetable for each class so that teaching scheme given by University of Mumbai (MU) is followed. • The class timetables are displayed on common notice board,

individual time table is provided to all faculty members and laboratory time tables are displayed in respective laboratories and the same is also made available on institute website. Process of executing the plan: • For proper implementation of curriculum, every subject teacher prepares a teaching plan before commencement of the semester. • The teaching and laboratory plans are approved by Head of Department (HoD) before the start of semester and communicated to students by respective course teacher. • Every subject teacher maintains a course file pertaining academic calendar, timetable, syllabus copy, lesson plan, subject notes, previous question papers and solutions, class test records, question bank along with prerequisites of the course and content beyond the syllabus. • The course files are evaluated by Internal Quality Assurance Committee (IQAC) with help of concerned senior subject teacher and HoD. • IQAC monitors the academic activities on day-to-day basis to ensure the execution of timetable. It also monitors execution of academic calendar and teaching learning process after every 15 days and finds the gap, if any. The gaps are conveyed to HoD for necessary action. • For a group of around 20 students a teacher is allocated as Mentor. Mentor conducts a weekly meeting and does the counseling of poor performing students. Mentor also addresses the nonacademic issues of the students. Functioning of Mentor activities is monitored by respective HoD. • The academic performance of students is continuously monitored by conducting unit tests, mock practical examinations during the semester. Remedial classes are conducted for the students having poor performance in these evaluations. • Bridge courses are organized and conducted for the first year students and lateral entry students to help them understand basic concepts of Mathematics and Engineering. • Employing learner centric techniques such as assignments, peer learning, group discussion, brain storming, use of NPTEL lectures, case studies, projects, quiz etc., in the delivery of the academic courses. • Library committee conducts meeting and takes appropriate decision regarding the requirement and procurement of books, journals, e-journals. Completely online system is implemented in library for transactions of the books. • Views of experts from industry, academia and alumni on curriculum are taken regularly. Feedback from industry and alumni is given due importance in defining graduate attributes and design of course outcomes. • Various supportive activities like, skill development programs, workshops, seminars, expert lectures, group discussions, presentations, field and industrial visits are organized to enhance the quality of teaching learning process. Please Note: In the light of the pandemic situation due to Covid-19, the classes/laboratories were shifted to digital platform taking in consideration the safety of all & following Covid-19 guidelines issued by local bodies/state government/central government from time to time. Needful deliverables were communicated via digital mode of communication to the concerned members.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Composite Training Program On Industrial, Humanoid, Hospitality Service Robot Platform	Nil	07/01/2019	4	Yes (Approach towards attraction of Industry Professionals other education Sectors are targeted for training on	Yes (This highly equipped Industrial training cell will help students to gain industrial operations

				Robotics subject to feasibility)	knowledge on handling programming industrial, humanoid, hospitality and service robot platform)
Advanced iOS App Development	Nil	07/01/2019	4	Yes (Focuses on App Development Internship)	Yes (Software programming/App development)
Spoken English Personality Development (SEPD)	Nil	24/06/2019	3	Yes (Basic training for Personality Development Career Guidance for Placement)	Yes (Group Discussion, Presentation Spoken English)
PCB Designing using ALTIUM	Nil	12/06/2020	3	Yes (PCB designing)	Yes (free lancing ,circuit designing ,assembling and hardware implementation)

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	BE COMPUTER ENGINEERING	08/07/2019
BE	BE ELECTRICAL ENGINEERING	08/07/2019
BE	BE ELECTRONICS AND TELECOMMUNICATION ENGINEERING	08/07/2019
BE	BE INFORMATION TECHNOLOGY	08/07/2019
BE	BE ELECTRONICS ENGINEERING	08/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	ELECTIVE IN TE COMPUTER ENGINEERING	08/07/2019
BE	ELECTIVE IN TE	08/07/2019

	ELECTRICAL ENGINEERING	
BE	ELECTIVE IN TE ELECTRONICS AND TELECOMMUNICATION ENGINEERING	08/07/2019
BE	ELECTIVE IN TE INFORMATION TECHNOLOGY	08/07/2019
BE	ELECTIVE IN TE ELECTRONICS ENGINEERING	08/07/2019

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

	Certificate	Diploma Course
Number of Students	119	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
Composite Training Program On Industrial, Humanoid, Hospitality Service Robot Platform	16/09/2019	54
Advanced iOS app development (BY COGNITIO SOLUTION)	26/09/2019	13
SEPD	24/06/2019	34
SPOKEN TUTORIAL (BASIC C/ C /JAVALANGUAGE CERTIFICATION COURSE)	01/06/2020	645
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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	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	37
BE	COMPUTER ENGINEERING	25
BE	INFORMATION TECHNOLOGY	37
BE	ELECTRICAL ENGINEERING	21
BE	ELECTRONICS ENGINEERING	45
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes

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

Feedback Obtained

Syllabus related feedback was collected from stakeholders (Students, Teachers, Parents, Alumni employers). This feedback was obtained online through Google forms. Responses of the forms were analyzed question wise which focuses on different aspects of syllabus such as knowledge, relevance to real life situations, depth of the course learning values etc. Suggestions were also invited from stake holders for betterment of the existing scenario. The collected feedback from all the stakeholders was discussed in BOG meeting. Some of the points that were discussed require maximum focus are as below

1. Ability to apply the concepts studied in syllabus to real life situations
2. Projects need to focus on learning values, skill development and knowledge of the current technology to make students industry ready.

Institute has taken important actions to upgrade overall development of the institution

- To fulfill the expectations, certain training sessions workshops were organized to give students exposure to recent industry trends technology.
- Institute also made them available state of the art research laboratories conducted various training sessions.
- Many guest lectures and Alumni Talks were organized to make students aware of the work projects going on in market.
- Industrial visits were planned for students to for bridging the gap between knowledge imparted in classroom and industrial practices followed.
- Students were guided for how they can successfully make their way to get admissions for higher studies or for grabbing good employment positions.
- We utilized some innovative teaching tools such as “The CN - the social learning platform” and Moodle to enrich teaching learning process.

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
BE	Electrical Engineering	60	72	41
BE	Electronics Engineering	60	67	39
BE	Electronics and Telecommunication Engineering	120	125	98
BE	Information Technology	120	154	120
BE	Computer Engineering	120	163	120

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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	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2019	2093	Nil	97	Nil	Nil

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
97	97	11	5	2	11

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

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

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

Mentoring System Our system promises to provide a better understanding of individual students and bring out their highest potential. It also appears to be the most effective method/weapon for mitigating cases of those students who are vulnerable to dropout from studies. Students are categorized based on the streams of studies. They are divided into groups of 2025 depending on the number of students. Each group is assigned a teacher-mentor who would perform mentoring duties a. Mentors maintain and update the Mentoring Format which contains space for entering particulars and performance of students (class tests, monthly attendance records, etc.) b. After collecting all necessary information, Mentors are expected to offer guidance and counseling, as and when required. c. It is the practice of Mentors to meet students individually or in groups. d. In isolated cases parents are called for counselling/special meetings with the Principal at the suggestion of the Mentor. e. If a student is identified as having weakness in particular subject, it is the duty of the Mentor to apprise the concerned subject teacher. Uniqueness: The institutional practice of Mentoring System has been designed and implemented a. to be studentcentric b. to render equitable service to students of varied academic financial backgrounds Constraints: With the introduction of continuous assessment under the Semester System, time factor could be a constraint for Mentors The scheme is adapted for the value additions to the students like – ? Bridging the gap between the teachers and students. ? Creation of a better environment in college, where students can approach teachers for both educational and personal guidance. ? Enhancement of knowledge base for both teachers and students alike, due to effective two-way communication. ? Awareness and support to students for GATE, GRE, CAT, ISRO, and other Govt. PSUs examinations. ? Motivation for higher studies and entrepreneurship. Advice and support for improvement in academic performance. Ongoing process: ? Regular meetings are held between mentor and mentee. ? A report card is maintained for each student. ? The report card has both personal and academic data. ? Students are allowed to approach the mentor for both academic personal problems. ? Personalized professional /career advice is given to the mentee. Targets achieved The institutional practice of Mentoring System has considerably enhanced the campus environment and brought about: a. Enhanced contact hours between Mentors with their respective students b. Improvement in students' attendance records c. Minimised student dropout rates (apparently due to Mentors' intervention before a student falls short of attendance or has been regularly abstaining from classes) d. Identification of slow learners for conducting Remedial Classes by few departments e. Advanced learners identified and encouraged with incentive prizes

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2093	97	1 : 22

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
97	97	Nil	Nil	8

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mahendra Patil	Assistant Professor	Minor Research Project MU(25000/-)
2019	Suvarna Pansamble	Assistant Professor	Minor Research Project MU(25000/-)
2019	Sachin Gavhane	Assistant Professor	Minor Research Project MU(25000/-)
2019	Garima Gurjar	Assistant Professor	EDII Ahmedabad, DST

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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
BE	320324610	SEM-VIII/ BE/INFT	17/10/2020	17/11/2020
BE	320324510	SEM-VIII/ BE/CMPN	18/10/2020	13/11/2020
BE	320337210	SEM-VIII/ BE/EXTC	19/10/2020	24/10/2020
BE	320337610	SEM-VIII/ BE/ETRX	20/10/2020	13/11/2020
BE	3203329310	SEM-VIII/ BE/ELEC	17/10/2020	17/11/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Effective implementation of evaluation reform of the university are strictly followed and those initiated by its own are ensured by the institution by strict compliance of process and procedure devised/ suggested by the university in order to follow the continuous evaluation system. The Institute has taken the following measures for the effective implementation of the evaluation reforms introduced by the University: The Institute has exam coordinators from each department for smooth conduction of the examination. The examination committee meets periodically to discuss all the examination related matters. At Institute level, effective implementation of tutorial and midsem test takes place and results are declared within eight days. The students can see their evaluated answer sheets and discuss the same with concerned faculty. Term test is based on the university syllabus. This will be in the form of questions of graded nature. Theory questions and numerical questions are also included. It is ensured that questions are relevant to the thinking process of the student and of progressive nature. Methodology of presentation is expected in the form of algorithmic flow chart and sketches from the student to improve the thinking

in logical way. The answer sheets are assessed on the point view of understanding the subject as main criteria. At the same time presentation is also looked into. In special case online exam with objective type question papers are set and immediate results are given. Viva and oral examination are conducted with the current topics with the relevant academicians and industry people to give an exposure to the students of the various disciplines. Practical are conducted with the latest equipments and software and in a healthy environment. All the exams are conducted in a student friendly environment so that the student can give full and meaningful performance. All the data are collected and stored in digital format for recovery/reference purpose. Final year term work is jointly evaluated by internal and external examiners. The faculty enter attendance and marks of the students periodically. The Institute appoints examiners for the practical examinations and viva voce examinations as per the University directives The Institute sends its faculty members as examiners to evaluate semester answer scripts to the affiliating University. The regulations, curricula and syllabi of all the programmes offered by the Institute are available in the Institute and the affiliated University websites. The regulations contain the details of the evaluation process. The OfficerInCharge of the Examination Cell of the Institute has prepared an Instruction Manual as per the guidelines of the Controller of Examination of Mumbai University to conduct of examinations and copies are available to all departments. During the Induction program the newly admitted students are updated about the attendance requirements as well as the pass mark requirements and the grading systems for the internal assessments. Whenever the students are in doubt, they are encouraged to clarify them by discussing with the teachers/principal.

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

An academic calendar is published by the institute which includes following items: Academic year starts as prescribed by MU. The university prepares and publishes the academic calendar for the academic year which includes plans for curricular and cocurricular activities based on the available working/teaching days as per university norms. Student council at the institute, responsible for making the academic calendar, prepares the Institute academic calendar in concurrence with the University calendar which is prepared in advance before the commencement of the semester. Approval for the same is taken by head of departments and Principal. The academic calendar is given to all faculties before commencement of the semester. Based on the academic calendar, teaching plan is prepared. Academic calendar of the Institute includes schedule of curricular transaction, assessment, technical events, , class tests, submission, list of holidays and extra curricular activities. Students are informed about time table and academic calendar well in advance. Teaching Plan, detailed lesson plan/teaching methodology according to syllabus is prepared by each faculty before the start of the semester. The lesson plan comprises of content, learning aid and methodology, faculty approach and course outcomes. The lesson plan generally highlights the content and total lectures for completion of the curriculum. Monitoring of implementation of lesson plan is done by HOD IQAC and corrective action are suggested. The laboratory Schedule is prepared by the concerned faculty and batch wise details are specified in the laboratory schedule. Time table of regular lectures for the semester is prepared as well as displayed on the notice board and website. There is academic monitoring committee appointed by the Principal/HOD who monitors day to day conduction of the lectures based on the time table.

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://drive.google.com/drive/folders/1zc6B3wJQ3HBdd8GbVmm8se07Lm8tPs3Q>

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
3203329310	BE	ELECTRICAL ENGINEERING	63	63	100
320324510	BE	COMPUTER ENGINEERING	135	135	100
320324610	BE	INFORMATION TECHNOLOGY	130	130	100
320337610	BE	ELECTRONICS ENGINEERING	71	71	100
320337210	BE	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	127	127	100

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2.7 – Student Satisfaction Survey

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

<https://drive.google.com/drive/folders/15RWNCI9PsjakFK3LrH9W25zySxjG6WOE?usp=sharing>

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
Projects sponsored by the University	1	Mumbai University	75000	75000

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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Identification of opportunities for entrepreneurs(Creativity in Entrepreneurship World)	icell,ACE	06/01/2020

How to start a SSI unit (General concept about the Govt. formalities, rules regulation, location, and different aspect of an industrial venture.).	icell,ACE	07/01/2020
Creativity and business- the man behind the venture -the behavioural scientists approach	icell,ACE	08/01/2020
Project Management :Journey from Idea to Prototype	icell,ACE	25/07/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Secured first position in Create a Solution at IP workshop Idea Meister Competition (Venue-ACE)	Ashutosh Pandey	ACE	26/09/2019	first position
Won in Airbus Aerothon, 2.0, held at New Horizon College of Engineering, Bangalore	Siddharth Sinha and team	New Horizon College Bangalore	08/12/2019	won
Squad Tech Hunt - Mega intercollegiate competition collaboration with Mumbai University 1st runner up	Meghana Erla	Intercollege	28/02/2020	1 Runner up
Secured second place at Solve4Bharat Hackathon event	Jishant Acharya and team	IISC	28/02/2020	2 RUNNER UP
awarded 2nd position for startup Idea-Dhrishti: Smart Aid for Blind People in final round of Atmanirbhar Bharat: COVID-19 Startup	Sandeep Vishwakarma	AISSMS College of Engg.	25/06/2020	2nd position

Second prize for internship project on Project based Skill Development in Advanced area of Electronics.	Karan Rathod	Ramrao Adik Institute of Technology, Nerul	09/12/2019	2nd position
Speaker on App Development Process Under ATMANIRBHARTA : COVID 19	Raju Potharaju	Atharva college of Engineering, Malad	11/07/2020	WON
ATMANIRBHARTA : COVID 19- Team Drishti	Astika Kundali	AISSMS College of Engineering, Pune (Innovative cell)	25/06/2020	2nd Postion(Won amount 10k)
Secured third position in Create a Solution at IP workshop Idea Meister Competition (Venue-ACE)	Pallavi Bhandary	ACE	26/09/2020	3 POSITION
Secured second position in ACE Hachathon19 during IEEE Techithon19 held at ACE	Shrusti Savant	ACE	26/09/2019	2 POSITION
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
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	0	0

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

Name of the Department	Number of PhD's Awarded
0	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	COMPUTER ENGINEERING	63	0.4
International	ELECTRICAL ENGINEERING	2	2.82
International	ELECTRONICS ENGINEERING	2	1.33
International	HUMANITIES AND APPLIED SCIENCES	1	1.33
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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
HUMANITIES AND APPLIED SCIENCES	1
ELECTRONICS ENGINEERING	3
ELECTRICAL ENGINEERING	8
COMPUTER ENGINEERING	7
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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
Multiple Lanes Identification for Advanced Driver Assistance System (ADAS)	Suvarna Pansambal	International Journal of Engineering and Advanced Technology	2019	Nil	Atharva College of Engineering	Nil
(DCNN) Deep Convolutional Neural Network Classifier and (EW-CSA) Earthworm-Crow Search Algorithm for Lane Detection,	Suvarna Pansambal	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	Nil	Atharva College of Engineering	Nil
ROBUST LANE IDENTIFICATION	Suvarna Pansambal	Journal of Critical	2019	Nil	Atharva College of Engineering	Nil

BY USING EW-CSA BASED DCNN		Reviews			g	
Multilane Detection Entropy-Based Fusion Model by using Iterative Seed and Optimized Deep Convolutional Neural Network,	Suvarna Pansambal	International Journal of Recent Technology and Engineering (IJRTE),	2019	Nil	Atharva College of Engineering	Nil
Crow search Algorithm (CSA	Suvarna Pansambal	International Journal of Recent Technology and Engineering	2019	3	Atharva College of Engineering	Nil
ROBUST LANE IDENTIFICATION BY USING EW-CSA BASED DCNN	Suvarna Pansambal	Journal of Advanced Research in Dynamical and Control Systems, 2019 .	2019	Nil	Atharva College of Engineering	Nil
Candle stick chart for stock market prediction	Rohit Tailor, Samyag Shah, Prof. Renuka Nagpure	International Research Journal of Engineering and Technology (IRJET)	2020	Nil	Atharva College of Engineering	Nil
Road Detection from Satellite Images ,	Shubham Malpani, Siddhesh Kamble, Mangesh Chavan, Prof. Renuka Nagpure	International Research Journal of Engineering and Technology (IRJET)	2020	Nil	Atharva College of Engineering	Nil
VIRTUAL MOUSE	Priya Vishwakarma, Ganesh Gosavi,	International Research Journal of	2020	Nil	Atharva College of Engineering	Nil

	Renuka Nagpure	Engineering and Technology (IRJET)				
Detection of Drug Abuse using Social media mining	Astika Kudali, Siddhi Kunekar, Prof. Renuka Nagpure	International Research Journal of Engineering and Technology (IRJET)	2020	Nil	Atharva College of Engineering	Nil
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
"Aperiodic Sampled-data Control of Distributed Networked Control Systems Under Stochastic Cyber-Attacks	Kritika Bansal, Pankaj Mukhija	IEEE/CAA Journal of Automatica Sinica	2020	4	1	National Institute of Technology Delhi
New economical design of SVC and passive filters to improve power quality at railway substation: a case study	Karuna Nikum	Journal of The Institution of Engineers (India): Series B 100 (5), 529-540	2019	3	3	Atharva College of Engineering
novel region-based iterative seed method for the detection of multiple lanes	Suvarna Pansambal	International Journal of Image and Data Fusion	2020	3	1	Bharath Institute of Higher Education and Research

Lane datasets for lane detection	Suvarna Pansambal	International Journal of Image and Data Fusion	2019	3	2	Bharath Institute of Higher Education and Research
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	22	Nil	Nil	1
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Yoga	Yogi Kush	1	48
iCare Event (webinar)	Ms.Sumaiya Raghavan	2	51
Webinar on organ Donation	Mr. Purushottam Pawar	2	54
Webinar on Entrepreneurship	Mr. Ashish Halder	1	50
Mental Health Awareness	Ms. Natasha Ambre	2	58
online quiz competition	NSS Atharva (B-57)	1	308
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Cloth distribution	Appreciation letter	Saakshar Welfare society	15
Beach clean up	Appreciation letter	Indian development foundation	28
World rose day celebration with cancer patients	Appreciation letter	DS Research centre	32
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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/Agen	Name of the activity	Number of teachers	Number of students
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	cy/collaborating agency		participated in such activities	participated in such activities
Teaching profession	ST, JOHN SCHOOL BANDRA	Worlds largest lesson	2	46
KARGIL VIJAY	ATHARVA FOUNDATION	KARGIL VIJAY DIWAS	125	603
Organ donation seminar	NSS Atharva	Organ donation seminar	2	75
Donation drive	NSS Atharva	Donation drive for flood victim Maharashtra	40	198
Swachh Bharat	NSS Atharva	CLEANING AND AWARENESS	1	148
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	Nil
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Government	Internship	All India Radio PrasarBharti	16/12/2019	21/12/2019	4
Government	Internship	Air India Limited	10/06/2019	10/07/2019	1
Private	Internship	DecodeTech IT	05/12/2019	24/12/2019	3
Private	Internship	Live Wire Company	02/12/2019	23/12/2019	3
Private	Internship	Learning IT	03/08/2019	02/02/2020	6
Private	Internship	Sahu technologies	01/06/2019	01/07/2019	8
Private	Internship	Smart Web Application, Platform Mobile Solutions	07/06/2020	Nil	21

Private	Internship	TECHCRYPTORS	01/12/2019	30/12/2019	15
Private	Internship	SAHU TECHNOLOGY	01/05/2020	30/05/2020	12
Private	Internship	Eduvance	11/06/2019	13/07/2019	17
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
AVP Robotics Pvt. Ltd.	02/01/2019	Development of future activities	22
Meritorium Knowledge Academy	05/02/2019	Internship Programs	18
Multiplexer abs Pvt. Ltd.	24/01/2019	Internship Programs	32
Eduvance	23/01/2019	Internship Programs	17
RNR InfoLans Pvt. Ltd.	04/02/2019	Internship Programs	16
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
5500000	4777268

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
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
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
MICM Library Management software	Partially	1.0.481	2004

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	12329	4832348	168	87692	12497	4920040
Reference Books	21504	7480639	22	239971	21526	7720610
e-Books	507	Nil	Nil	Nil	507	Nil
Journals	57	161964	57	168864	114	330828
e-Journals	Nil	Nil	Nil	Nil	Nil	Nil
Digital Database	7	1964602	5	927711	12	2892313
CD & Video	3202	Nil	14	Nil	3216	Nil
Library Automation	1	13125	1	Nil	2	13125
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil
Others (specify)	2	138650	Nil	Nil	2	138650

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	522	27	522	12	4	2	5	200	0
Added	0	0	0	0	0	0	0	0	0
Total	522	27	522	12	4	2	5	200	0

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

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
WizIQ , GOOGLE MEET	https://www.youtube.com/playlist?list=PL7s0pY0hnY-Qo1uGDN39ofcc10ZFWXZ51

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
150000	134774	11500000	10287152

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)

Maintenance of resources a) Equipment and machine maintenance Some of the critical maintenance work are outsourced as per the outsourcing process defined in ISO manual. However regular monitoring and control is the responsibility of maintenance section. i. Records of equipments are maintained in stock registers as specified in Purchase Process ii. Equipment's / appliances are serviced periodically or as and when required iii. Equipment's like measuring devices are checked / calibrated during servicing iv. Servicing is done either by inhouse personnel or by external party or through annual maintenance contract (AMC) v. Record of servicing is maintained. vi. Records of AMC are maintained in AMC Register. b) General maintenance: i. Maintenance of A.C. plant is outsourced on AMC and Auditorium, cleaning and maintenance is done by internal staff member and one person from outside. ii. Cleanliness of toilet blocks and wash room have been done by the in-house employees iii. Fire extinguisher is outsourced since refilling of the cylinder is done once in a year. iv. Maintenance of CCTV is done by the in-house employee and is maintained in coordination through technical person of computer center Policy of the Library: Acquire and make available to all students and faculty of the college such as books, journals, magazines.. Maintain a program of service which locates information, and interprets material for students and faculty of various streams, and stimulates thinking and intellectual development in individuals of any age. Policy of the Laboratory: Develop an appreciation of the importance of Practical knowledge. Produce scientifically literate young adults. Teaching of the experimental method Supplementing the theoretical material covered in the lectures The training of an engineering students follow higher-order learning of the experimental method at the analysis. Policy of the Classroom: Entering the room: Enter quietly and politely Lining up: Stand up quietly, push in your chair, take all necessary items line up without touching others or talking Leaving the room: inform faculty where you are going not run or play in the hallways or restrooms. Beginning the day: Enter the room politely, lunch, turn in your homework, sit at your desk and read alone or do your work silently Policy for the Computers user: User should use any college computer or network facility with proper authorization. User shall knowingly endanger the security of any college computer or network facility, nor will fully interfere with others authorized computer usage. User shall connect any computer to any of the

University's networks unless it meets technical and security standards set by the college. Policy for the sports complex using profane language during any and all practice sessions and games is absolutely prohibited. Fields may be closed due to inclement weather (lightning, excessive rain), problems with irrigation, poor drainage of fields, etc. Please help keep the Fields, and parking lots clean for all participants. Please dispose of waste items in the trash cans provided. Vehicles and bikes are not permitted on Fields or grassy areas

<http://www.atharvacoe.ac.in/wp-content/uploads/Proceduresandpolicies.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	0	0	0
Financial Support from Other Sources			
a) National	FREESHIP/SCHOLARS HIP	956	56040177
b) International	NIL	Nil	0

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Blockchain	30/09/2019	98	Mr. Ankit Patel
Fundamentals of Computer Vision Certified by Nvidia	01/08/2019	91	1. Mr. Jayant Ramteke, 2. Mr. Noorain Panjwani
App development IT industry overview	11/09/2019	72	Mr. Vicky Pal
Arduino Programming Hands on	26/09/2019	76	Mr. Parth Parekh Nimisha
Data Science and Cyber security	04/02/2020	122	Mr. Suresh Kumar, Mr. Arun Kumar from Smaartree: DataGami
Antenna Design FOX hunt	24/02/2020	80	Mr Jayesh Banatwala MARI institute team members
self healing through seed technology	12/03/2020	48	Mr. Arun P Vakharia
Language Lab	15/07/2019	421	HAS CS FACULTY MEMBERS
SPOKEN ENGLISH AND PERSONALITY	15/06/2020	35	HAS CS FACULTY MEMBERS

DEVELOPMENT

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	INFORMATION TECHNOLOGY	120	120	22	88
2019	COMPUTER ENGINEERING	10	75	10	93
2019	ELECTRONICS ENGINEERING	15	50	5	29
2019	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	60	423	5	38
2019	ELECTRICAL ENGINEERING	23	47	3	20
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	30

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
Vistex Capgemini Burns McDonnell Media.Net Endurance Groups Sportz Interactive Vikran Robokart	678	46	Infosys DSM Infocom TCS - Ninja TCS - Digital NSE IT Seclore Technology Reliance Jio Jaro Education Zycus Zeus Learning CloudFronts	1099	90

Simeio
Solutions
Servosys
Atos Syntel
NucSoft
Square Yard
TSS Bista
Solutions
Sensys India
SilverLink
Wipro EY (in

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	10	B.E.	COMPUTER ENGINEERING	Stevens Institute of Technology	Ms in Applied Data Science
2020	3	B.E	ELECTRONICS ENGINEERING	University of Arizonas Management Information Systems University illinois at chicago	MS
2020	4	B.E	ELECTRONICS AND TELECOMM UNICATION ENGINEERING	LAKE HEAD UNIVERSITY	MS
2020	2	B.E.	ELECTRICAL ENGINEERING	UNIVERSITY OF TEXAS	MS
2020	11	B.E.	INFORMATION TECHNOLOGY	Northeastern University, US	MS

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

Items	Number of students selected/ qualifying
GRE	21
TOFEL	20
GATE	3
CAT	5
Any Other	1

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

Activity	Level	Number of Participants
Athletics	Institute	25
Shot put	Institute	12
Carrom	Institute	60
Chess	Institute	24
Football	Institute	200
Badminton	Institute	25
Cricket	Institute	250
Kabbadi	Institute	140
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	3rd Prize Wakro Indian Open International Kick Boxing Tournament	International	1	Nil	Nil	Kartik Mehra
2019	1st Prize Ram Krishna Hare Mangal Pune, Point Fight	National	1	Nil	Nil	Kartik Mehra
2019	2nd Prize Ram Krishna Hare Mangal Pune, Kick Boxing	National	1	Nil	Nil	Kartik Mehra
2019	1st Prize IIT Mumbai Dance	National	Nil	1	Nil	Neha Chedda
2019	35th State Athletics Championship	National	1	Nil	Nil	Mandar Vasaikar

2019	West Zone Nationals Athletics Meet	National	1	Nil	Nil	Mandar Vasaikar
2019	Secured IIIrd position IIT Bombay cultural festival-mood Indigo 2019	National	Nil	1	Nil	Samita Mhatre Viraj Prajapati Janvi Shetty
2019	Hack Asia hackathon 2019	International	1	Nil	Nil	Krunal Gedia Saurabh soparkar Prem Kumar Raval Abhishek B andivadekar
2019	Best Player Government Polytechnic, Bandra, Kabbadi	National	1	Nil	Nil	Mahadev Matkari
2019	1st Prize SPIT College, Kabbadi	National	1	Nil	Nil	Sawpnil Malap

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

As per the Rules and regulations Under provision of section 40(2)(b) of the Maharashtra Universities act, 1994 and guidelines were provided by Mumbai University, Atharva College has formed the Student Council. The basic objective is To provide a platform for active participation of students in academic and administrative bodies and involve them in curricular, co curricular and extracurricular activities to enhance their interpersonal relations, leadership and managerial skills, individual and team work and overall personality development. Advantages of student council The academic schedule of the entire year for the Student Council starts with the Republic day celebration where we host the entire flag hoisting program. The Student council in consultation with the HODs prepare Academic calendar for the both the semesters. In the month of February, we have the convocation ceremony which is entirely conducted by the student council body. The Induction ceremony for the F.E students and S.E diploma students conducted with the help of faculty to provide details of college infrastructure, events, activities and committee, etc. As we have Technical festival IEEE TECHITHON in the odd semester, The Student council planned the entire event. we have our biggest festival of the year Ganesho utsav i.e Atharvacha Raja where we welcome our beloved bappa in our very own

campus for 7 days. Council also plan and schedule the Industrial Visits for the entire Engineering Departments i.e from F.E to B.E.with faculty members. Student's councils celebrate Engineers day, Teachers day, womans day and also involved in the celebration of Independence day and Republic day etc. Under the banner of NSS, and Atharva foundation Swacha bharat abhiyan, Street plays, Road safety, Blood donation, free health check up activities, one for all all for one are conducted. IQAC and students council organised Innovation Mela, Atharva Hackathon, eweek for students development. In the month of May Council organised Farewell for our beloved B.E students who have their last few days in college. Students Council helps to manage the resources at International Conference organised by college. Rhythm The Annual cultural festival of the Atharva is one of the best attraction. During Rhythm, the first day starts with the Marathon with a social cause followed by Night events each day like Dance, Fashion, War of bands, Drama, Prom, and Dj night wherein different colleges compete among each other, along with other Lan events, Fun events, Day events, etc. The entire Festival is solely organised by the Student council. As soon as the Festival ends, we have our Sports Week for 5 days with 2 inter college and 3 intercollegiate days held at Poisar Gymkhana. Students Council planned sports activities to give exposure to the students Students council started Paradigm of life, It is is a platform, where students develop their soft skills and professional manners and etiquette.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

3834

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Under this, we organize Expert / Guest lecturers from alumni. This can be on campus or online lectures using Wiz-IQ platform/ Google meet/ZOOM. We had 07 such Alumni Talks in this academic year 2019-20. Alumni share their experience about new technologies or skills required in industries with current students. Alumni had given talk on preplacement area also.

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)

Academic Performance Monitoring Committee (APMC) APMC is headed by Chairman who is the Principal of the institute. Other members of the committee are VP Academics, H.O.D.'s, and Academic Coordinator, Class In charges. • APMC monitors the teaching learning process. It prepares the academic calendar of the institute which is a reflection of University's academic calendar that includes curricular, cocurricular and extracurricular activities. • Academic calendar is meticulously planned and prepared in advance by Vice-Principal Academics along with Academic Coordinator and ensures the proper implementation of the academic calendar. • APMC does lab and course file audit before commencement of semester and in the middle of semester, random confirmation of attendance once in a month, takes action on defaulter student and faculty and

gives feedback to Principal. • Class Incharge conducts average, weak and advance learner activity at class level and gives feedback to department APMC. The inputs received from various stakeholders of the institute are reviewed and those which are in line with our institute's Vision and Mission Statements are considered by the APMC for the decision making.

2. Organization of International Conference

The academic committee convened the meeting of faculty members and student representatives to decide the planning and implementation of International Conference. The proposal for the conference was submitted to the Management for the approval of budget. Once accepted, the various committees have been constituted:

- 1) Brochure Preparation, Invitation Acceptance of Papers Committee: involves preparing brochure and sending the invitation to the research scholar, faculty members and institute for participation in the International conference and sending them through email.
- 2) Papers Reviewing Printing Distribution of the conference proceedings committee: reviews the research papers and approves them. It also involved Printing of conference proceedings, Brochure, banner, poster, certificates any other print material and distribution of conference proceeding.
- 3) Registration Kit Committee: maintained the records of registration, operating registration desk, maintaining record of total registered participants kit inventory.
- 4) Guest Speaker Invitation and escorting Committee: have given autonomy in selecting the guest speaker from relevant sector for the conference. The student's volunteers have been given a task of escorting the guest and providing the hospitality in the conference.
- 5) Stage Seating Arrangement Committee Aesthetics/Ambience Management Decoration: All nonteaching staff along with the faculty members has actively participated in preparation of conference stage, technical arrangement, purchase of necessary material, plan seating arrangement, display of banner, felicitation of the guest, maintaining the overall discipline, management of aesthetics and overall ambience of the conference.
- 6) Hospitality and catering committee: involve teaching and nonteaching staff for deciding the menu breakfast and lunch for the conference and preparing and sanctioning the budget and providing hospitality services.
- 7) Report Photographs Committee: plays vital role for capturing the moments of the event. Hence, all the teaching and nonteaching staff including student are the part and partciple of the event. So, while executing the event, institute practices decentralization and participative management.

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
Industry Interaction / Collaboration	College has established special industry institute interaction cell and some other committees to collaborate with industry.
Curriculum Development	Faculty members regularly attend course orientation programmes organised by university, workshops and seminars on revision of curriculum. The Institute forwards the suggestion of its faculty to the University through the members of Board of studies. The design and development of the curriculum is the responsibility of the University. Institute deutes the

faculty for attending curriculum development workshops organized by the University. The institution takes part in the curriculum development process through appropriate analysis of feedback given by various stakeholders from time to time and assimilates the suggestions in the functional style of the institution. The institution takes a 360-degree feedback from students in which feedback of University Syllabus is also taken. Students also takes part in organizing the workshops and seminars in the institution.

Teaching and Learning

Students are the most important stakeholders of the Institute. At our Institute, all efforts are being taken to groom them as social engineers. Following major points highlights the same: Tutorials are conducted which include proactive teaching learning methods. Multimedia teaching aids like animated videos, demo videos, TheCN, Online Teaching through WizIQ and PPT's are incorporated in the day today teaching process enhance the students understanding of the subject. Guest lectures by experts from the industry and addon courses are organized by the respective departments, to cover content beyond syllabus. A Language laboratory has been established for students to improve their English proficiency. Soft skills training slots were incorporated in the weekly timetable, where experts, guided the students regarding presentation and communication skills. Intercollegiate events are organized to bring out the potential of the students for eg Innovation Mela in which faculty members groom and guide the students to come up with innovative ideas and to build entrepreneurship skills in them. Industrial visits and technical courses are arranged throughout the year to give hands on experience to students. Wi-Fi facility is available in the campus to allow students to access technical resources. The college central library is well equipped with technical magazines, journals and NPTEL lecture videos. Memorandum of Understanding (MoU) are signed with leading industries to bridge the gap in the curriculum. The institution provides platform for innovation and research in the form of various

INNOVATIVE labs like Ground station, iMac lab , Innovation lab , Robotics, centre, Fab lab , IoT lab , Remote embedded lab etc.

Examination and Evaluation

The Officer In-Charge of the Examination Cell of the Institute has prepared an Instruction Manual as per the guidelines of the Controller of Examination of Mumbai University to conduct of examinations and copies are available to all departments. During the Induction program the newly admitted students are updated about the attendance requirements as well as the pass mark requirements and the grading systems for the internal assessments. Whenever the students are in doubt, they are encouraged to clarify them by discussing with the teachers/principal. The evaluation processes are automated through intranet facilities. The faculty enters attendance and marks of the students periodically. The institution also uses learning management system such as MOODLE and TheCN for evaluation of student's assignments, experiments and quizzes etc. The credit system for each course is introduced for UG degrees. The Institute appoints examiners for the practical examinations and viva voce examinations as per the University directives. The Institute sends its faculty members as examiners to evaluate semester answer scripts to the affiliating University. Effective implementation of evaluation reform of the university is strictly followed and those initiated by its own are ensured by the institution by strict compliance of process and procedure devised/ suggested by the university in order to follow the continuous evaluation system. The Institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University: The Institute has exam coordinators from each department for smooth conduction of the examination. The examination committee meets periodically to discuss all the examination related matters. At Institute level, effective implementation of tutorial and mid-semester test takes place and results are declared within eight days. The students can see their evaluated answer

sheets and discuss the same with concerned faculty. Final year term work is jointly evaluated by internal and external examiners. For smooth conduction of University theory examination, an internal squad comprising of senior faculty members is appointed

Research and Development

Faculty members are involved in pursuing their individual research work and publishing their findings in national and international journals /conferences. Guiding student research: Many faculty members are involved in guiding the students (UG) for their research activities through major projects. Leading Research Projects: Some of the faculty members are leading research teams of students in their select research area of their interest. Our institution has iCell which is recognised by MHRD. Under this iCell, to foster the culture of Innovation and Research, the members organised Innovation Mela in March, 2019 where various Business Models and Ideas were presented in front of investors. Funds: faculty members got funds for minor projects from funding agencies

Library, ICT and Physical Infrastructure / Instrumentation

TOTAL NO. OF BOOKS : 33,833 NATIONAL JOURNALS : 57 ONLINE JOURNALS (As per AICTE consortium) 1) IEEE 2) Springer 3) subject collection 3) McGraw Hill - General engineering and reference 4) JGATE engineering and technology (JET) 5) Elsevier - Science direct 6) ASTM Digital Library Online version - Online dictionary of engineering science and technology 7) National Digital Library KNOWLEDGE CENTER MEMBERSHIP :(Annual membership) 1) Central Library, Indian Institute of Technology, Bombay (IIT, Mumbai) 2) Automotive Research Association of India Knowledge Centre MAGAZINES : 7 TOTAL COST OF BOOKS : 123.85 LAKHS TOTAL COST OF SUBSCRIPTION FOR JOURNALS : 21,47,696 LAKHS (Per year) The institute is optimistic as far as the infrastructural upgradation is concerned. The college intends to upgrade the PCs with latest configuration available. The Institute intends to replace the non-functional parts with new parts. Nonworking computer hardware components are used as models to demonstrate in the practical classes.

Human Resource Management	<p>The Institute takes care of its human resources. Employees are given utmost importance and their needs are well recognized. Service rules are made transparent and the staff gets benefits such as Provident Fund, Group Insurance Scheme etc. The faculty and staff are entitled to other benefits like casual leave, maternity leave, medical leave, earned leave and vacation according to rules laid down in the statutes of MU.</p> <p>The Institute frequently arranges training Programmes and also deputed the staff to other organizations for attending such Programmes for acquiring balanced skills (technical skills, teaching skills, soft skills). The Institute has a well-defined and effective selection procedure, systematic performance appraisal system and promotion policies.</p>
Admission of Students	<p>The Institute follows all the rules and norms laid down by DTE, Government of Maharashtra regarding admission of students in the reservation criteria. It offers seats to SC/ST, OBC, women, economically weak students (TFWS Tuition Fee Waiver Scheme) as per the government norms, rules and regulations. There is a special quota for the candidates of Jammu and Kashmir as per DTE norms.</p>

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

E-governance area	Details
Planning and Development	Development of e-governance system for making the system digitized
Finance and Accounts	Tally Solutions
Student Admission and Support	MICM Net Solutions
Examination	Khushi Software

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
2020	NIL	NIL	NIL	Nill
2019	NIL	NIL	NIL	Nill
No file uploaded.				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	FDP on DALE CARNEGIE teaching methodologies	Nil	04/09/2019	06/09/2019	19	Nil
2019	STTP on Machine learning IOT	Nil	25/11/2019	06/12/2019	13	Nil
2019	IP Workshop	Nil	04/09/2019	04/09/2019	4	Nil
2019	PMMNMTT Sponsored 1 Week FDP on Cyber Security	FDP on Cyber Security	03/09/2019	08/09/2019	12	4
2019	2 Weeks STTP on Machine Learning IoT	STTP on Machine Learning IoT	25/11/2019	06/12/2019	11	4
2019	App development IT industry overview	App development IT industry overview	11/09/2019	11/09/2019	12	3
2019	Arduino Programming Hands ON	Arduino Programming Hands ON	26/09/2019	26/09/2019	12	3
2020	HAM Radio Antenna	HAM Radio Antenna	28/01/2020	28/01/2020	12	3
2020	Data Science and Cyber security	Data Science and Cyber security	04/02/2020	04/02/2020	12	3
2020	Antenna Design FOX hunt	Antenna Design FOX hunt	24/02/2020	25/02/2020	12	3
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development	Number of teachers who attended	From Date	To date	Duration
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programme				
Webinar on Education 4.0 Season 1. under IQAC	97	28/05/2020	30/05/2020	2
Webinar on Education 4.0 Season 1. under IQAC	97	28/04/2020	30/04/2020	2
Workshop on Self-healing through seed technology	15	12/03/2020	12/03/2020	8
Workshop on Electrical, Mechanical and Pumping Systems	20	12/03/2020	13/03/2020	8
Workshop on Data Science and Cyber security	30	22/01/2020	22/01/2020	8
STTP workshop on Machine Learning IOT	30	25/11/2019	25/11/2019	8
TEDx Program	50	30/07/2019	30/07/2019	8
Workshop on App development IT industry overview	30	11/11/2019	11/11/2019	8
Workshop on Handson training on Arduino UNO	30	20/09/2019	20/09/2019	6
Workshop on Antenna Design FOX hunt	20	24/02/2020	24/02/2020	8

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
51	46	7	77

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medical Insurance, SickLeaves, Maternity Leaves, casualleaves, Vacations(summer andwinter), Provident Fund.	Medical Insurance, SickLeaves, Maternity Leaves, casual leaves, ProvidentFund.	Students' groupinsuranc e, Sponsorshipfortechnical , culturaland sports activities

6.4 – Financial Management and Resource Mobilization

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

Internal Audit is carried by the Internal Audit Department. The accounts of the College are audited regularly as per the Government rules .The internal auditor checks receipts with fee receipts and payments with vouchers and the necessary supporting documents. He/She also ensures that all payments are duly authorized. The Statutory audit is carried out by C.A. firm S.K. Shetty CO. in accordance with the Accounting Standards governed by Institute of Chartered Accountants of India every year. The Statutory Auditor conducts an audit after completion of the financial year. The report of the Statutory Auditor for the last two years along with the audited Balance Sheet and Income and Expenditure account is enclosed. The last Statutory Audit has been completed on 16th December 2020 for the session 2019-20. Audit work for the session 2018-19,2017-18, 2016-17, 2015-16. was also conducted by the same Auditor. According to the Audit report the Balance Sheets, Statements of Income and Expenditure comply with the Accounting standards, Generally accepted in India. Academic Audit External Agency Global Geotak, LIC , internal Agency IQAC Administrative External Agency Account Audit (C.A. from S.K. Shetty CO.), Internal Department Audit .

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
NIL	0	NIL
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6.4.3 – Total corpus fund generated

43340000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Global Geotak, LIC	Yes	IQAC
Administrative	Yes	Global Geotak, LIC	Yes	CFO Balchandra Akut

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

1.PTM(Parents teacher meeting) is conducted once / twice in a semester by each department . 2.Mentors submit a progress report to the parents and involve in one to one communication. 3.Feedback for the institute and other academic activities is taken from the parents.

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

1. IQAC in collaboration with seed technology has organized a one day workshop on "Self healing through seed technology" on 12th March 2020 for support staff. The session was conducted by an expert from Seed Technology. The session was knowledgeable and stress releasing. The was attended by the 15 support staff. The session will really help them in molding their career for betterment. 2.Organized Development programme for Support staff for providing the knowledge of various government schemes. 3. Training session was conducted on Smart use

of Internet and Msoffice for all support staff.

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

1. Hackathons: Hack.Asia 2019 : The Hack Asia hackathon was a resounding success with over 800 participants from across Southeast Asia and India, 200 teams competed for only 36 places at the final hackathon weekend with Jardines and Daimler on October 19th in Singapore. Date: October 2019, Singapore. Topic: Security Go!/Result: Top #5 Across Asia Smart India Hackathon 2020 Hardware Section Winners: We were all very delighted to see such a positive response from our students! The hackathon received registrations of 30 teams, which meant that over 200 students participated, as each team comprised 6 students each. These teams belonged to the first, second, third and final year of engineering, with maximum participation from third year students. Glad to inform that, the 2 Student Teams of Atharva College of Engineering, has won the First Prize in Smart India Hackathon 2020 (National Level Hackathon Competition) under the Hardware section organized by the Government of India, The Team SPARKLERS PRIME has won the first prize under the Students Innovation Category by proposing an innovative idea in the field of Renewable Energy and The Team PYMAX has won the first prize as the joint winners by proposing a creative idea for Ministry of Communications, Government of India. 2. STAFF TRAINING CENTRE (STC), ACE: The STC organizes various FDPs for growth and development of faculty members, to provide an excellent platform to faculty members from various disciplines in developing competence and understanding recent advances in research, to discuss and build an ecosystem for improving quality of engineering education with external faculty experts from Industry and Academia. 3. IQAC organized a national level Webinar on Education 4.0 Season 1 from 28 April 2020 to 30 April 2020, in which the participants from all over India have attended this webinar. The program was a grand success under the guidance of Hon'ble Shri Sunil Rane sir, Executive President of Atharva Group of Institutes, Dr. Pravin Nemade sir, Director of Atharva College of Engineering and Dr. Shrikant Kallurkar sir, Principal of Atharva College of Engineering. Total 3100 participants benefited from this webinar and online certificates were issued to all the participants. 4. Department of Computer Engineering, Atharva College of Engineering organized an online International conference ICCTAW 2020 on 22 April 2020 and 23 April 2020 in which faculties, researchers and students from different institutes participated and presented their research work in front of the panel of experts. Selected papers were published in reputed journals. Total 140 papers published in International Journal of future generation communication networking (Web of Science) and Samruddhi Journal (UGC) and 421 participants attended the conference.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Two days workshop on Fundamentals of Computer Vision Certified by	01/08/2019	01/08/2019	02/08/2019	31

	Nvidia				
2019	One day workshop on Web Development	23/08/2019	23/08/2019	23/08/2019	22
2020	STTP workshop on Machine Learning IOT	25/11/2019	25/11/2019	06/12/2020	33
2019	Workshop on Basic PCB Designing	11/07/2019	11/07/2019	12/07/2019	10
2019	TEDx Program	30/07/2019	30/07/2019	30/07/2019	57
2019	Pre Placement Talk	10/07/2019	10/07/2019	11/07/2019	5
2019	Workshop on Industrial approach in Electronics	10/07/2019	10/07/2019	11/07/2019	20
2019	Seminar on Induction Program	09/07/2019	09/07/2019	09/07/2019	5
2019	Seminar on pre placement talk	12/07/2019	12/07/2019	12/07/2019	5
2019	Seminar on pre placement talk	15/07/2019	15/07/2019	15/07/2019	5
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Yoga Day	21/06/2019	21/06/2019	26	32
World's Largest Lesson	09/08/2019	09/08/2019	96	32
Foundation Day	17/09/2019	17/09/2019	25	28
School Adoption	19/09/2019	19/09/2019	59	62
Rose Day	27/09/2019	27/09/2019	13	12

Celebration				
Voter Awareness	10/10/2019	10/10/2019	22	25
Street play	12/01/2020	12/01/2020	97	27
Flag awareness	25/01/2020	25/01/2020	25	23
Cloth Bag Making and Distribution	31/01/2020	31/01/2020	11	14
Andheri Street Play	20/02/2020	20/02/2020	26	29

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
Total utilization of power in 2019-20 is 3,28,425 Kwh. Out of that 20 Percentage Lighting through LED bulbs and 80 Percentage Lighting through other sources

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Scribes for examination	No	Nil
Special skill development for differently abled students	No	1
Any other similar facility	Nil	1

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
2019	3	4	09/08/2019	4	Tree Plantation	Awareness about the Environment	56
2019	2	1	19/08/2019	4	Donation Drive: thing and	Poor wealth condition and Aware	35

					house hold	ness.	
2019	1	1	19/09/2019	4	School Adoption:	Education al awareness at adopted area:	16
2019	3	2	21/09/2019	4	Seva Saptah Traffic Management	Safety awareness	34
2019	2	1	27/09/2020	2	Rose Day Celebration	Spread the happiness and joy to the cancer patients	23
2019	3	2	20/09/2019	4	Dadar Beach Clean-Up	Awareness about the Environment	25
2020	4	3	25/01/2020	4	Flag awareness:	Duty towards Nation	15
2020	5	4	31/01/2020	4	Cloth Bag Making and Distribution	Importance of using paper and cloth bags	34
2020	3	2	19/02/2020	4	Cloth Donation Drive	Poor condition and Awareness.	32
2020	3	2	21/02/2020	4	UTS App Promotion : 21st February, 2020	Education al awareness	27

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

Title	Date of publication	Follow up(max 100 words)
Code Of Conduct For Students And Teachers , Manuals And Brochures On Human Values And Professional Ethics	01/07/2019	This handbook indicates the standard procedures and practices of Atharva College of Engineering for all Employees and students enrolling with

the Institute for pursuing varied courses. All Employees and all students must know that it is incumbent upon them to abide by this Code of Ethics and Conduct and the rights, responsibilities including the restrictions flowing from it. That the Institute's endeavor by means of enforcing this Code is to pioneer and administer a student discipline process that is egalitarian, conscientious, effectual and expeditious and providing a system which promotes student growth through individual and collective responsibility. All Employees and all Students are requested to be well conversant with this Code, which can be also reviewed on the official website of the Institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree Plantation at Jeevdani 1st July 2019	01/07/2019	01/07/2019	28
No Tobacco Day Pledge	14/07/2019	14/07/2019	30
Cleaning Malad Station - Up drive	27/07/2019	27/07/2019	39
Kargil Diwas publicity	19/07/2019	19/07/2019	45
Kargil Vijay Diwas Celebration:	26/07/2019	26/07/2019	54
Tree Plantation	09/08/2019	09/08/2019	157
Donation Drive	19/08/2019	22/08/2019	45
Seva Saptah Traffic Management	21/09/2019	21/09/2019	48
Dadar Beach Clean-Up.	20/09/2019	20/09/2019	54

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

1. Plastic Free: Atharva college of Engineering has plastic free campus and it is surrounded by plants and trees. NSS Atharva volunteers organized a rally for spreading the importance of use of cloth bags, by distributing cloth bags to the vendors and people in Dharivali village. The efforts of the volunteers were appreciated by people. 2. Tree plantation: Helping hands for healthy environment will help to make globe healthy. We have organized tree plantation drive at college campus on the occasion of Independence Day. Teaching and NonTeaching staff participated actively in the same event. More than 100 plants have been planted by volunteers and staff members. 3. Swachhata abhiyaan: NSS Atharva volunteers undertook a drive where they clean the college surroundings and made the place neat, clean and tidy. Volunteers made people aware about the facts of Swachhata by interacting with the people told them to come forward for the cause of Swachha Bharat Abhiyaan. They explained the importance of cleanliness and proper sanitation in all spheres of life. Also, the NSS team organized a cleanup drive at Gorai Beach. They collected debris from the beach and informed the locals to maintain and cleanliness of the beach. Our female volunteer's organized beach cleans up drive at Malvani beach on the next day of Ganpati visharjan. They have collected plastic bags, empty plastic bottles, garlands, and Ganpati idols and handed over to the BMC officers 4. Recycling waste water In Atharva College of Engineering, waste is treated before disposing off. Water coming off from chemistry laboratory is filtered out first, Solid waste is separated and then treated with chemicals to convert into insoluble precipitates. As the waste coming off from chemistry laboratory is very small in amount and volume the treated water is mixed with grey water and then processed as mentioned below to later use water for gardening purpose. Atharva College also treats waste water from washrooms (grey water). Grey water collected is filtered off initially and solid waste is separated and disposed off in the sewage system backyards. The filtered water is treated with hypochlorous acid, jaggery and cowdung to remove microorganisms and fouling smell. Later the treated water is used to water the plants in the college vicinity. 5. Canteen waste and Dry plants (Best out of Waste) Atharva, we segregate the wastage of canteen material and dry plants. Then it is dumped into container/ pot hole. After doing required procedure on it, dumped material is converted into manure. This is use as fertilizer for plants and trees.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices 1. Title of the Practice: Smart India Hackathon Participation 2. Objectives of the Practice To instigate the competency amongst students, to solve the problem statements of various companies, those were proposed by Smart India Hackathon before the competition, in Software and Hardware categories. 3. The Context: By participating in the Smart India Hackathon, which is a nationwide inventiveness, students acquire a plan of action, to address some of the pressing problems we face in our daily lives. Thus it is quite supportive to inculcate a culture of product innovation and a mindset of problem-solving. The initiative is to encourage innovation and out-of-the-box thinking in young minds. It is aimed to provide a platform to students so that they will be able to deal with, India's challenges of today with technologies of tomorrow. 4. The Practice Smart India Hackathon Participation:- Out of 23 student teams from Atharva College of engineering, 5 teams by providing an innovative idea got selected for the Grand finale of Smart India Hackathon (Software Edition) held in different nodal centers across the country and out of 5 teams who

participated in Grand finale on 2nd and 3rd March 2019, two teams, were successful in winning the 36 hrs continuous competition (with Prize money of RS.1 lac each) under the COMPLEX problem statement category for Infosys and TVS motors. Following are the details of the teams got selected for the Grand finale: 1. Team Name: Vengers (WINNERS) Team Members: 1. Krunal gediya (TE CMPN) (Team Leader) 2. Saurabh Soparkar (TE CMPN) 3. Mrityunjay Mishra (TE CMPN) 4. Akash Mishra (TE CMPN) 5. Prem Raval (TE CMPN) 6. Reeya Nand (TE INFT)

Brief Idea: leveraging the use of Augmented Reality In large retail stores/malls, so that customer would have his/her personal bot assistant which can help them to navigate through the place and also provide Content Rich 3D promotional messages. 2. Team Name: //TO DO: WIN (WINNERS) Team Members: 1. Abhishek Bandivadekar (TE CMPN) (Team Leader) 2. Trishala Ahalpara (TE CMPN) 3. Kunal Kasa (TE CMPN) 4. Ajit Goud (TE CMPN) 5. Jatin Jawale (TE CMPN) 6. Vinay Addagatla (TE CMPN) Brief Idea: The was program powered by Machine Learning, Artificial Intelligence and Deep Learning to give the answer to all questions related to the progress of any event. With This program it will be just a few clicks that one would need to know how well the event is performing or not.

With Augmented reality backing up the program and having a glimpse of the event on phone is possible. 3. Team Name: TrailBlazers_78 Team Members: 1. Shubham

karande (SE INFT) (Team Leader) 2. Sanket Birwatkar (TE CMPN) 3. Aviraj Chindarkar (TE CMPN) 4. Pankaj Chaurasia (TE CMPN) 5. Supreeth Kunder (TE CMPN) 6. Arpita Bhagath (TE INFT) Brief Idea: Deep learning algorithms can take a decade of field data insights about how crops have performed in various climates and inherited certain characteristics and use this data to develop a probability model. Thus, this will help the farmers to great extent and can reduce their workload. 4. Team Name: Alpha_Interface Team Members: 1. Ketki Salunkhe (TE CMPN) (Team Leader) 2. Priyanka Rajaram (TE CMPN) 3. Samidha Raut (TE CMPN) 4. Abhidnya Khobragade (TE CMPN) 5. Namrata Kamble (TE CMPN) 6.

Maqsood A Khan (TE INFT) Brief Idea: The application is AR based which scans the QR code to display the 3D model of the bike. The user can explore different features such as Colour change, 3D rotation, Sound of Engine, Zoom in/ Zoom out, Video links, Screenshots and many more facilities. 5. Team Name:

SPARKLERS_PRIME Team Members: 1. Divyesh A Khandhedia (TE ELEC) (Team Leader) 2. Shubham P Gamre (TE ELEC) 3. Siddesh V Sutar (TE ELEC) 4. Anuja A Masurkar (TE ELEC) 5. Vinit S Surve (TE ELEC) 6. Shankar D Warang (TE ELEC) Brief Idea: In order to improve power factor, monitor consumption of load with respect to time, and to maintain voltage stability, the project is intended to design and build a system that allows monitoring and control of electrical devices

connected to the Internet via Wi-Fi. 5. Evidence of Success The SIH 2019 saw over 5 million students from various colleges compete for the top prize at 65 locations. In SIH the students have the opportunity to work on challenges faced within various Ministries, Departments, Industries, PSUs and NGOs to create world class solutions for some of the top organizations including industries in the world, thus helping the Private sector hire the best minds from across the nation. March 2019, CALICUT, Kerala, India Topic: Introducing AI Enabled

Augmented Reality Autonomous Personal Bot for Retails. Result: SIH 2019 Winner - 1st prize (1,00,000 INR) Team VENGERS Mentor: Prof. Priti Rumao Mr. Suraj Pawar Members: 1. Krunal Bharat Gediya 2. Saurabh Soparkar 3. Reeya Nand 4. Mrityunjai Mishra 5. Akash Mishra 6. Premkumar Raval Problem Statement: In large retail stores/malls, navigating to your desired product might get confusing sometimes. Even though most of the retail stores are well organized, location of specific product is not known to users most of the time. This brings in the need to develop autonomous Bot for Retails. Solution: Used Augmented Reality to solve this problem. Using this idea, each customer would have his/her personal bot assistant which can help them to navigate through the place and also provide Content Rich 3D promotional messages. 6. Problems Encountered and Resources Required: 1. To maintain the Cooperation and understanding level, amongst student team members. 2. The utilization of budget upto its optimum

level to get the best outcome. 3. During the process of solving problems, students get stuck. Therefore, to keep them motivating is a big responsibility. 4. The time constraints to complete the given task was also an important issue.

II] 1. Title of the Practice IEEE Techithon 2019 (An annual inter-collegiate Technical Festival) 2. Objectives of the Practice a. Encourages engineering undergraduates to showcase their technical skills and compete with others, to find the best in innovation. b. Focuses on filling the gap between existing technologies with upcoming and pioneering technologies. c. Through this festival, IEEE TECHITHON desires to endorse novelty in technologies for the betterment of nation. It inculcates self-learning, Peer-Learning and Group Learning. d. It provides the environment where the existing technology is re-accelerated to fit the needs of the new generation. 3. The Context: Atharva College of Engineering hosted one of the most jubilant and elaborates annual technical fest from 9th October to 11th October 2019. The festival depicted the unique theme, "INNOVAZIA" (Revamping tech). The purpose of the fest was, to offer, a radiant blend of Technology, Creativity, Beauty and Fun with technical events such as Robo-wars, Robo-Soccer, Technical paper presentation and blind coding. Along with various genres' events like Fifa, Treasure hunt, Hogathon, Neon football, escape the room, PUBG, Laser tag and many more. IEEE TECHITHON is anticipated to set a new high for all the technical fests in the city. The festival provided opportunity to the participants from different technical colleges across Mumbai to showcase their technical projects along with Atharva college students in the event. 3. The Practice The projects like Mini Kuka- 6 axis Robot, Military Robot-Stealth Robot, Power mate, Humidity to water Converter, Color Segregation for industrial logistics, Omni Surface Rover, NAS (storage server), Electronics Notepad, Door Unlocking (face recognition), Hydroponics, Solar curtain and many more. There were various seminars and workshops conducted on different topics like Abroad studies, ethical hacking and web development. This year under the banner of IEEE TECHITHON 2019 "INNOVAZIA" (Revamping tech), for the first time conducted a Guest Lecture Series which is called as Atharva Guest Lecture Series (AGLS) on the event day 10th of October 2019, wherein four prominent speakers from different backgrounds shared, motivated their experience and knowledge. The speakers for Atharva Guest Lecture Series (AGLS) were Captain. Dharmveer, Mr.Ali Mustufa, Prof.Nirmal Thakur and Mr.Kuntal Joisher. And also for the first time, "ACE HACKATHON'19" was conducted on 10th to 11th October 2019. Overall total of 98 Participants and a Total of 22 teams worked on different projects over the domains such as Machine Learning, Health-tech, Fin-tech, Future of Mobility, Internet of Things (IoT) for 24 hours. The judges were Mr.Aniket Kadam, Mr.Nilesh Shinde, Miss. Deesha Vora, Mr.Vivek Yadav, Dr.Jonathan Joshi, Mr.Raj Dedania and Mr.Mrityunjai Mishra. The winners of the "ACE HACKATHON'19" were 'Blood Donor Finder' which was lead by Syed Shahad Uddin and 'Food VR note' which was lead by Neha Bhargava. Techithon Projects: ? Solar Curtain. ? Power-Mate ? Hydroponics ? Six-Axes ARM ? Tactical Robot ? Automated Door Unlocking ? Electronic Notepad ? NAS (Storage Server) ? Omni-Surface Rover ? Color Segregation for Industrial Logistics ? Humidity to Water Converter 4. Evidence of Success The efforts put in by each council member and volunteer was noteworthy and highly appreciated by everyone visited the festival. The presence and participation of students from various colleges itself proved, that the festival was a great boon for the young engineering students, who get Involved and displayed their technical projects related to the theme. They expressed their valuable Feed-back that, the festival was very successful in every possible manner. 5. Problems Encountered and Resources Required 1. The time management to conduct such a big event, was a major point to be kept in mind. 2. The selection of the fest theme, was also a prime subject matter. 3. Proper guidance and motivation to students, was must to keep them attentive and involved. 4. Proper uses of budget, to avail its best and appropriate benefits.

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

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 College is striving hard to give thrust to the Digital India Program in terms of ICT and Technology Education. In this regard, courses from Microsoft and Oracle have been promoted, so that students can achieve International standards in education. Many students have got certificates from for their performance at competitive exams. The teaching staff thus get exposure to collaboration and interaction with faculty from other institutes in states across India. Recently, the staff underwent rigorous training for 3 months at IIT Bombay X – FDP 101x Foundation Program in 'ICT for Education'. Fifty One staff members from Atharva College have cleared FDP101x and enrolled for IIT Bombay X – FDP201x – 'Pedagogy for Online and Blended Teaching-Learning Process'. The teachers participate continuously in various other Faculty Development Programmes throughout the year. Keeping in line with the vision of the institute to provide high quality technical education, the institute has introduced the use of tools such as course networking, blogs, and flip classroom in all institutional activities. The Course Networking model followed in each Department not only supports course management, but also generates new learning opportunities with social networking as the foundation for learning. The various tools for creating new posts, broadcasting live videos, creating quizzes, polls and other interactive tests with any kind of media attachment helps students develop a deep understanding through comprehension and reflection. Reward points are given to learners as they participate on the social learning platform, share knowledge, solve assignments and build a good network. It is mandatory for each staff member to create a course and ensure that all students join the course at the beginning of each semester. The teacher uploads all learning material, assignments, question banks and quizzes throughout the semester. This provides easy and quick access to each student. Even those who are on medical leave and cannot come to college can access the data and work towards the completion of the course. The teacher follows up with any student who has not responded to assignments/quizzes uploaded. An extensive notification system provides notification messages via smart phone, email and the website. Personalized social networking offers the capability of creating learning groups and interest groups. Course pairing provides dynamic networking among learners from courses within different institutions and countries. Students are encouraged to start their own blogs and enhance their creative and technical writing skills and develop a broad network. A Facebook Page called [www.facebook.com/ bloggers](http://www.facebook.com/bloggers) has been created by students for so that any student from any year/branch can share their blogs. Links to staff profiles on Course networking and Staff WordPress pages as well as student and alumni blog links are put up on the college website. Atharva College always motivates staff members college and even makes it mandatory to complete minimum one NPTEL course in a year. Course networking was appreciated by students and they were benefited by online learning. Thus to encourage students more courses were added by faculties. College motivates faculties to upgrade their knowledge and skills.

Provide the weblink of the institution

<http://www.atharvacoe.ac.in>

8.Future Plans of Actions for Next Academic Year

Online Knowledge impartment is the need today. Emphasis is given on online education considering the present and future scenario. Thus online lectures, workshops, seminars, conferences etc are plans for coming year. Academic plan

1. Improve the teaching/learning environment.
2. Improve IIIC for better Industry connectivity.
3. Arrange paid internship in India and Abroad for students
4. Apply for NBA.
5. Promote Entrepreneurship and innovation culture.
6. Collaboration with good foreign Universities in process.
7. To Enhance interdisciplinary research opportunities to impact the quality of life for the region.
8. Upgrade instructional technology services.
9. Indian Technological Institutes foreign universities and venture establishing MOU with them. Increase resources and continue to provide a summer bridge program .

Research Plan
Research is the backbone of academics skeleton. It simplifies concept building and transforms novel ideas into innovations in pursuance of a new era of passion for researches. The Research and Development Cell aims to nurture research culture in the College by promoting research in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. It encourages the students and faculty to undertake the research in the following research discipline.

1. Improve the knowledge, skills and qualifications by registering Ph.D's
2. To publish technical papers in SCI/SCOPUS, National and International Conferences/Journals by staff members and students
3. To enroll around 70 faculty members in PhD.by end of this Academic year
4. To raise the funding for research activities and development of projects.
5. To conduct approved ISTE/ AICTE/STTP workshop/seminar/FDP

Improve academic interaction and participation of institutes / universities of national and international eminence in order to facilitate learning, innovation and research. Academic and Institute Bridging plan
Additional faculty or adjunct professor from industries are hire in critical needs areas, especially general education. Connect with the Universities with whom already MOU is established, to seek greater/improved avenues of collaboration. Contact other Deemed Universities to study and explore the possible avenues of collaboration with respect to the facilities established by them.

- MoU with Eduvance for conduct of Summer/Winter Internship training on Embedded Systems/Machine Learning.
- MoU with Microchip for setting up a Microchip Academy for conduct of Microchip certification courses at subsidized rates.
- MoU with Cisco for setting up a Cisco Academy for conduct of Cisco certification courses at subsidized rates.
- MoU with Xenium Digital Inc. for internships and projects for staff and students.
- Tieup with IITM,Pune for launch of our balloon satellite from Atharva Ground station team
- Industrial tieup for a stateoftheart AI lab on campus.
- Upgradation of idea generation software in iLab and exploration of oppourtunities in SMEs for Management Development Programs(MDP).
- Planning, coordination and conduction of Business Idea competition, Technical Quiz and allied activities as part of activities under MHRDs' Institute Innovation Council (IIC) at ACE.