



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	AMC ENGINEERING COLLEGE
Name of the head of the Institution	Dr.A G NATARAJ
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08027828655
Mobile no.	9902044111
Registered Email	principal@amceducation.in
Alternate Email	principal@amcec.edu.in
Address	Bannerghatta Main Road, Bangaluru-560083,
City/Town	Bengaluru
State/UT	Karnataka
Pincode	560083

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr.A K Murthy			
Phone no/Alternate Phone no.		08027828655			
Mobile no.		9199025769			
Registered Email		dean.academics@amceducation.in			
Alternate Email		principal@amceducation.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.amcgroup.edu.in/AMCEC/image/NAAC/AOAR2018-19/AMCE_AOAR_2018-19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.amcgroup.edu.in/AMCEC/image/Download/COE2019.pdf			
5. Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B++	2.77	2016	02-Dec-2016	01-Dec-2021
6. Date of Establishment of IQAC			09-Sep-2014		
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	

Campus interview held inviting 30 Companies for placement	01-Aug-2020 1	139
Text Books - 515 Gen/Ref Books-16 , Journals (Print)-1661 Purchased Worth of Rs 21,43,036	01-Aug-2020 1	2000
Engineering Physics lab 15 Equipment, UPS battery Quantum 42ah smf , FPGA trainer kit, Edgecam software updaton Purchased Worth of Rs 4,01,499 /-	01-Aug-2020 1	2000
STTP FDP/VTU Tequip on Upskilling Total Station And IRNSS	01-Sep-2020 134	187
Two days workshop on Software and Equipments for lab instructors	28-Feb-2020 2	79

[View File](#)

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical Engineering	Infrastructure Strengthening of Material Testing Engines Lab	MODROBS (AICTE)	2019 360	9.94
Mechanical Engineering	Sustainable Technologies For Packaging Applications	KSCST	2019 360	0.05
Mechanical Engineering	Sustainable (Bio-Degradable) Products From Grain Mill Waste	KSCST	2019 360	0.04
Mechanical Engineering	Design Fabrication of a Compact Multi-Operated Manhole Cleaning Machine	KSCST	2019 360	0.07
Computer Science & Engineering	VISION X	KSCST	2019 360	0.04

Civil Engineering	Water Security For Athinatham Village	KSCST	2019 360	0.06
Computer Science & Engineering	Intruder Detection and Moving Object Tracking Using Machine Learning Techniques	KSCST	2019 360	0.04
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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
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
•Feedback collected, analysed and action initiated on the basis of analysis report.	
•Students were helped financially through scholarship from Government departments.	
•Better performance of students in university exams observed because of extensive work towards academic excellence.	
•Rs 605.00 Lakhs budget expenditure incurred on infrastructure augmentation.	
•Disabled friendly and Eco-Friendly Campus	
View File	
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	Achievements/Outcomes				
Encourage faculties to publish books and edit volumes.	30 Books published by faculty during the year.				
Encourage faculties to participate in seminars/conference/symposia	<ul style="list-style-type: none"> • 15 Faculties attended seminars/workshops at International level, 237 at National level, 10 at State level, 5 at Local level • 25 Faculties presented papers at International level, 25 at National level, 5 at State level. • 5 Faculties participated as resource person at National level, 4 at State level, 14 at Local level. 				
To have more Linkages, Collaboration and MoUs with other Institutions/Agencies benefitting more students and faculties	During the year 122 Linkages, 11 Collaborative activities and 3 MoUs signed benefitting 65 faculties and 818 students				
Focus on strengthening Field Visits, Internship and Project work	674 Students completed Internships and 293 Students participated in Field Visits				
Conduct Student Satisfaction Survey on overall performance of the Institution and also conduct feedback from different stakeholders regarding curricula and syllabus	Student Satisfaction Survey conducted, Students responded 2000				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Governing council</td> <td>27-Jul-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing council	27-Jul-2020
Name of Statutory Body	Meeting Date				
Governing council	27-Jul-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	30-May-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	1. Planning and Development Egovernance planning and development in a form of				

educational technology facilitates learning via online courses and contents. Unlike traditional forms of classroom education, elearning is always available, highly adaptable to each student's level of current knowledge through the ERP software called DHI. There is a digitized library to access the materials online through separate account for students and the staff. 2. Administration Administration of faculties and students are implemented through the ERP software called DHI. Which has SMS based information dissemination 1. through DHI. 2. CIE marks can be viewed by the students in ERP software. 3. Exams are conducted according the university Rules and Regulations

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

AMC Engineering College (AMCEC) affiliated to Visvesvaraya Technological University (VTU), Belagavi Karnataka is a non-autonomous college. All the academic programs of AMCEC follows the curriculum which are designed and developed by VTU. The curriculum prepared by the university is done in consultation with the academicians and technical experts selected from industry, keeping in view the requirements of both the industry and society.

Although the technical contents are developed by the University, course outcomes (CO) of the academic programs are correlated to the vision, mission of our institution and Program Educational Objectives (PEO). To fulfil the demands of the competitive market for employability both at national and international level, each CO of our programs are mapped to the program outcomes (PO) defined by the National Board of Accreditation (NBA) at appropriate levels of blooms taxonomy related to Knowledge & Understanding, Application & Analysis and Evaluation & Creativity / Critical thinking. CO is also mapped to the program specific outcome (PSO) designed and developed in consultation with stake holders of AMCEC which includes experts from both academic and industry. Based on the best suited teaching-learning style identified for each CO, every topic of the syllabus is restructured for session wise delivery, called as lesson plan. Calendar of events planned for every academic year both at college level and department level. Detailed timetable for both theory, laboratory helps to deliver the session wise lesson plan systematically. Effectiveness of student learning or cognitive level is indicated by assessment system. Each COs are assessed based on direct assessment and indirect assessments. Direct assessment includes continuous internal assessment (CIE) conducted by the department and semester end examination (SEE) conducted by the University Theory and practical courses. Indirect assessment includes course exit survey of theory and practical's seminars, workshops, industrial visits, internships, projects which gives ample exposure to real time professional environment. All the activities are defined with COs and are mapped to PO/PSO. Direct assessment includes 30% CIA, 10% assignment and 60% SEE. Based on the outcome of assessment,

remedial measures are devised to increase the level of attainment of learning or to find out the strengths and shortfalls of the learning taken place. Necessary changes are made in Teaching-Learning Process to fill the gap in regard to each course and each student of the course.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Artificial Intelligence Skill Development Program	Nil	14/10/2019	6	Focus on employability	Skill development
Artificial Intelligence Skill Development Program	Nil	14/10/2019	6	Focus on employability	Skill development
Internet of Things Skill Development Program	Nil	14/10/2019	6	Focus on employability	Skill development
NS-2 ,NS-3	Nil	17/08/2019	9	Focus on employability	Skill development
Introduction to Big Data	Nil	01/08/2020	6	Focus on employability	Skill development
Various Coursera Courses	Nil	01/06/2020	6	Focus on employability	Skill development
Developing Soft skills and Personality	Nil	26/08/2019	6	Focus on employability	Skill development
Python Application Programming	Nil	17/08/2019	6	Focus on employability	Skill development
Various Coursera Courses	Nil	01/06/2020	6	Focus on employability	Skill development
Automotive technologies	Nil	21/08/2019	6	Focus on employability	Skill development
Product design and development	Nil	22/01/2020	6	Focus on employability	Skill development
A Course on MATLAB - SIMULINK	Nil	17/08/2019	15	Focus on employability	Skill development
Various Coursera	Nil	01/06/2020	6	Focus on employability	Skill development

Courses						
SMP	Nil	17/08/2019	6	Focus on e	Skill	mployability development
CYPE Programme	Nil	17/08/2019	1	Focus on e	Skill	mployability development
Soft Skills Training	Nil	01/08/2019	1	Focus on e	Skill	mployability development
Fundamentals of Internet of Things (IOT)	Nil	15/06/2019	6	Focus on e	Skill	mployability development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechatronics	01/08/2019
View File		

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	Information Science & Engineering	11/07/2019
BE	Electronics and Communication Engineering	11/07/2019
BE	Mechanical Engineering	11/07/2019
BE	Electrical and Electronics Engineering	11/07/2019
BE	Civil Engineering	11/07/2019
BE	Mechatronics Engineering	18/05/2019
Mtech	Computer Science Engineering	19/08/2019
Mtech	Computer Network Engineering	19/08/2019
Mtech	Digital Electronics and Communication	19/08/2019
Mtech	VLSI and Embedded Systems	19/08/2019
Mtech	Machine Design	19/08/2019
Mtech	Power System Engineering	19/08/2019
MBA	Master of Business Administration	19/08/2019
MCA	Master of Computer	19/08/2019

	Application	
BE	Computer Science and Engineering	11/07/2019

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

	Certificate	Diploma Course
Number of Students	708	0

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
Civil - Pre-placement training	01/02/2019	55
CSE - Pre-placement training	01/02/2019	192
CSE - Leadership, Decision making Communication skills	03/02/2020	192
CSE - German Class	01/08/2019	40
ECE - Pre-placement training	01/08/2020	92
ECE - Soft skills training	03/02/2019	88
ECE - German Class	07/09/2019	10
EEE - Pre-placement training	01/02/2019	59
ISE - Pre-placement training	01/08/2019	175
ISE - Soft skills training	03/02/2019	175
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer science Engineering	233
BE	Information Science Engineering	80
BE	Electronics and Communication Engineering	133
BE	Mechanical Engineering	176
BE	Electrical and Electronics Engineering	96
BE	Civil Engineering	110
Mtech	Computer science Engineering	6

Mtech	Power System	4
MBA	MBA Finance	74
MCA	Computer Application	76
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>The Institution maintains a structured feedback system about the quality of Teaching and Learning evaluation process. The online feedback is taken from all the students twice in a semester by the concerned Department Heads. The feedback questionnaire consists of curriculum, teaching-learning, Institutional facilities and so on. This feedback analysis are discussed on behalf of the college committee. The suggestions are also taken from the Industry experts about the curriculum in order to focus on students employability. During the University curriculum reformation workshops, the faculty representatives will share their views and thoughts in front of the BOS committee. Individual faculty feedback is analyzed and shared between the faculty members, about their Teaching strengths and weaknesses. The faculty having highest feedback are appreciated in the Departmental levels, whereas the faculty members having less feedback are given tips about the teaching skills and advised to attend Faculty Development programs to enhance their teaching learning skills. The action taken report are shared between the faculty members to improve in the next academic years. Meanwhile, the feedback is also collected from the faculties, employers, Alumni and parents on the available facilities in the Institution, and about the quality of education. The obtained feedback is documented and the corrective action taken report will be shared among the concerned stake holders of the Institution.</p>

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
Mtech	DEC	25	0	0
Mtech	CNE	18	0	0
Mtech	CSE	36	1	1
BE	MECHATRONICS	120	3	18
BE	CIVIL	60	11	34
BE	EEE	60	3	30
BE	ME	240	13	32

BE	ECE	180	27	127
BE	ISE	120	30	106
BE	CSE	240	58	248
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2135	292	210	54	10

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
274	274	1237	47	4	25

[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)

Students Mentoring System Student mentoring system is available in the institution. At the beginning of every academic year, approved faculty members are assigned as mentors to a group of students/mentees. Mentors conduct periodic mentor-mentee meetings to monitor the progress of their respective mentees in academic, co-curricular and extracurricular activities. Mentor-mentee meetings are conducted at the beginning of every semester, after the IA tests and before the university exams. This helps to address and resolve any study related issues, students might be facing. These meetings also help to identify and nurture students' interest in co-curricular and extracurricular activities. Periodic PTMs are also conducted to keep the parents updated with their wards' progress. To address the non academic and personal issues students are counseled from time to time.

Objectives: • Enabling overall development of the mentee • Helping mentees to resolve their problems(academic and nonacademic) • Counseling students on areas apart from academics • Fostering good mentor -mentee relations. Context of the practice: • In today's competitive and stressful environment, mentoring system enables the students to achieve their full potential and adjust to the stress and vigor of a professional education. • It also helps the students in settling down within the new system with ease. • The indirect effect of this system leads to a healthier mentor -mentee relationship and a better learning environment on the campus. • In present time, the pandemic had affected lives of students in multiple ways, leading to stress, uncertainty and confusion.

Counselling helps students to share their feelings and helps towards their overall wellbeing. Mentors are provided with appropriate guidelines for effective implementation of the students mentoring system. Effective mentoring system helps students to do well in academics and enables their holistic growth.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2427	274	1:9

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned	No. of filled positions	Vacant positions	Positions filled during	No. of faculty with
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positions			the current year	Ph.D
268	265	7	9	16

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.J.Jenitta	Associate Professor	TEXAS INSTRUMENT - Appreciation for Fostering the Ecosystem Bridging Governmnet,Academia and Industry
2019	Ms. Srividhya Ganesan, International level	Associate Professor	Research Excellence Award, Institute of Scholars, Registered under Ministry of MSME, Government of India

[View File](#)

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
MBA	MBA	4 Sem	24/08/2019	20/01/2020
Mtech	LVS	4 Sem	05/04/2020	20/07/2020
Mtech	DEC	4 Sem	05/04/2020	20/07/2020
Mtech	SCS	4 Sem	05/04/2020	20/07/2020
BE	CV	8 Sem	27/08/2020	27/09/2020
BE	EEE	8 Sem	27/08/2020	27/09/2020
BE	ME	8 Sem	27/08/2020	27/09/2020
BE	ECE	8 Sem	27/08/2020	27/09/2020
BE	ISE	8 Sem	27/08/2020	27/09/2020
BE	CSE	8 Sem	27/08/2020	27/09/2021

[View File](#)

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

Guidelines are provided to the students regarding rules regulations with respect to internal examinations before the start of the internal examinations. IA tests are planned in advance for theory as well as for practical and is mentioned in calendar of events provided to the students. IA examinations are conducted by the department who carry out examination work for both internal and University exams. If a student has any grievances, he/she can approach the

examination committee seeking for redressal and the same is addressed by the committee. Principal Hods with coordinators discuss about the grievance and action will be initiated. The grievance is addressed within 2 to 3 days. Attendance Performance of the student is monitored regularly. Theory IA tests question paper is prepared as per the prescribed format in two sets based on the course outcomes. Program Assessment Committee (PAC) scrutinize the question paper and one question paper is selected for the conduction of IA test. All the modules mentioned in the syllabus are covered uniformly in three IA tests. Scheme is prepared for question paper which has appeared for the test and is discussed in brief with students after each test. Answer booklets are evaluated based on the scheme. Practical exams are conducted in line with university exams, marks distribution is based on write-up, conduction and viva. IA marks are updated in Institution Learning Management System. Marks are also updated in log books. Slow learners are Identified and special tutorial classes are conducted for them.

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

1. University publish Academic Calendar for respective academic year in the beginning of that academic year comprising of semester start date, semester end date, start and end of practical examination, start and end of Theory examinations, list of holidays. 2. Institute prepares its own calendar of events in line with the University calendar of events in leadership of Principal, participation of all department HODs and various coordinators one month before the commencement of semester. 3. Institute calendar of events comprises of Three IA test dates, Internship dates, Seminar, Project viva voce dates, inter collegiate and Intra collegiate fest, Alumni meet, Parent-Teacher meetings, Graduation day, First year Inauguration day, Women's day, Teacher's day etc. 4. Department prepares its own Calendar of Events adding dates for departmental events such as Seminars, Proctor Meeting, Industrial Visits, IA tests, Project Reviews, Conferences, Workshops, and Department Meetings etc. to proceed in the right direction 5. It is communicated to all the stakeholders through college website, department Blog and Mobile App. 6. The detailed lesson plan/teaching methodology as suited to syllabus is prepared by each faculty before start of the semester. 7. All the Saturdays are utilized for Co-Curricular events to cover Contents beyond Syllabus. 8. Time Table of regular lectures for the semester is prepared as well and displayed on the notice board and website. 9. There is an academic monitoring committee appointed by the Principal/HOD who monitors the day- to- day conduct 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://www.amcgroup.edu.in/AMCEC/image/gallery/PO_PSO_CO_AY_19_20.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CSE	BE	Computer Science Engineering	174	165	94.83
ISE	BE		88	87	98.86

		Information Science Engineering			
ECE	BE	Electronics and Communication Engineering	104	104	100
ME	BE	Mechanical Engineering	142	138	97.18
EEE	BE	Electrical and Electronics Engineering	59	54	91.53
CVE	BE	Civil Engineering	55	52	94.55
CSE	Mtech	Computer Science Engineering	4	4	100
PSE	Mtech	PG-Power systems	2	1	50
MBA	MBA	MBA	36	32	88.89
MCA	MCA	MCA	38	38	100
View File					

2.7 – Student Satisfaction Survey

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

https://www.amcgroup.edu.in/AMCEC/image/NAAC/AOAR2019-20/Final_2.7.1.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	2	MODROBS (AICTE)	9.94	9.94
Minor Projects	365	VTU-TEQIP	0.1	0.1
Minor Projects	365	KSCST	0.31	0.31

[View File](#)

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Security, Privacy for Personal,	Electronics Communication Engineering	11/06/2019

Business and Professional		
Workshop on Software Development Process conducted by AGILE	Electronics Communication Engineering	15/11/2019
Seminar on GATE exam	Electronics Communication Engineering	21/08/2019
Seminar on Education, Immigration and Training	Electronics Communication Engineering	29/08/2019
Workshop on IoT Machine Learning (Audio processing image processing)	Electronics Communication Engineering	06/07/2019
Workshop on IoT application using raspberry pi	Electronics Communication Engineering	07/11/2019
Workshop/internship program on IoT and Machine Learning	Electronics Communication Engineering	08/01/2020
Workshop on IoT Machine Learning	Electronics Communication Engineering	08/01/2020
VTU TEQIP 1.3 sponsored Two days workshop for Lab Instructor"	Electronics Communication Engineering	28/02/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Green ThinlerZ Bright Educator Award 2018	Mr. Ananthanagu	INFOSYS	25/08/2019	Distinguished Educator
Model Making	Akshata	K S School of engineering and management	30/09/2019	II Place
Concrete fair	Akshata	R V College of engineering	15/10/2019	Participated
Concrete fair	Harini	R V College of engineering	15/10/2019	Participated
RESEARCH AVENUES AND PRACTICAL APPLICATIONS IN CONCRETE TECHNOLOGY	Muskan	B M S College of engineering	26/10/2019	Participated
NIRMAAN ICESS- Bridge your way	Akshata	B M S College of engineering	10/11/2019	Participated
Advanced Automated Prosthetic limb	Madhu Mohan R	IISc "OPEN DAY"	14/11/2019	Participated
Hybrid Electric	Prajwal.K.N and David	Prodothon 1.0- at BNM	14/11/2019	Second Place

mobility for mopeds/scooters		Institute of Technology, Bengaluru		
BEST ISTE Student	Ms.Tejashree	ISTE	25/11/2019	BEST ISTE Student
urban challenges and civil engineering opportunities	M Sri .tarun	ACCI	27/02/2020	Participated
View File				

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
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	2	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
Mechanical Engineering	2
Computer science Engineering	1
Electronics and Communication Engineering	3
Information Science Engineering	1
Electrical and Electronics Engineering	1
PHYSICS	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	11	3.5
International	Computer Science Engineering	8	7
International	Electronics and Communication Engineering	17	0.46
International	Information Science Engineering	4	0.71
International	Civil Engineering	2	0
International	Electrical and Electronics	2	0

	Engineering		
International	Mathematics	2	0.65
International	Physics	1	1
International	Chemistry	1	2
View File			

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
CHEMISTRY	1
MCA	3
MBA	1
MATHEMATICS	2
Electrical and Electronics Engineering	1
Civil Engineering	6
Electronics and Communication Engineering	4
Computer Science Engineering	2
Mechanical Engineering	10
View File	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Evaluation Of Mechanical Properties Of AA6061-B4C Metal Matrix Composite Obtained By Stir-Casting Technique	Manjunatha C Sanjay P and Girisha C	International Journal of Mechanical and Production Engineering Research and Development	2020	0	AMC Engineering college	0
Optimizing the power consumption in WSN through target tracking	N. V. Umareddy	IEEE	2020	0	AMC Engineering college	0

High Gain and Improved Bandwidth Microstrip Patch Antenna using Computer Simulation Technology Microwave Studio for 4.25 Ghz and 7.5 Ghz	N. V. Umareddy	International Journal of Innovative Technology and Exploring Engineering	2020	0	AMC Engineering college	0
Smart Coat for Visually Impaired using Machine Learning	Aruna	IJCA	2020	0	AMC Engineering college	0
Motion estimation using variable size block matching with cross square search pattern	G.Senbagavalli	SN Applied Sciences (2020)	2020	0	AMC Engineering college	0
Multiple Intruder Locating Dominating Sets in Graphs: An Algorithmic Approach	K. Venugopal and K. A. Vidya	Communications in Mathematics and Applications	2020	0	AMC Engineering college	0
Framework for Cross Layer Energy Optimization in Wireless Sensor Networks	R. Amutha	EAI Endorsed Transactions on Energy Web Journal Research Article	2020	0	AMC Engineering college	0
Sentimental analysis of translated	Dr. Latha C A	Journal of Ambient Intelligence and Humanized	2020	3	AMC Engineering college	3

text in Malayalam using recurrent neural networks		Computing				
Identification of language in a cross linguistic environment	Dr. Latha C A	Indonesian Journal of Electrical Engineering and Computer Science	2020	0	AMC Engineering college	0
Novel Authentication Framework for Securing Communication in Internet-of-Things,	Dr. Arun Biradar	International Journal of Electrical and Computer Engineering (IJECE)	2020	0	East West Institute of Technology	0

[View File](#)

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Evaluation Of Mechanical Properties Of AA6061-B4C Metal Matrix Composite Obtained By Stir-Casting Technique	Manjunatha C Sanjay P and Girisha C	International Journal of Mechanical and Production Engineering Research and Development	2020	16	0	AMC Engineering college
Optimizing the power consumption in WSN through target tracking	N. V. Umareddy	IEEE	2020	40	0	AMC Engineering college
High Gain and	N. V. Umareddy	International	2020	40	0	AMC Engineering

Improved Bandwidth Microstrip Patch Antenna using Computer Simulation Technology Microwave Studio for 4.25 Ghz and 7.5 Ghz		Journal of Innovative Technology and Exploring Engineering				college
Smart Coat for Visually Impaired using Machine Learning	Aruna	IJCA	2020	0	0	AMC Engineering college
Motion estimation using variable size block matching with cross square search pattern	G.Senbagavalli	SN Applied Sciences (2020)	2020	23	0	AMC Engineering college
Multiple Intruder Locating Dominating Sets in Graphs: An Algorithmic Approach	K. Venugopal and K. A. Vidya	Communications in Mathematics and Applications	2020	0	0	AMC Engineering college
Framework for Cross Layer Energy Optimization in Wireless Sensor Networks	R. Amutha	EAI Endorsed Transactions on Energy Web Journal Research Article	2020	4	0	AMC Engineering college
Sentimental analysis of transliterated text in Malayalam	Dr. Latha C A	Journal of Ambient Intelligence and Humanized Computing	2020	28	3	AMC Engineering college

using recurrent neural networks						
Identification of language in a cross linguistic environment	Dr. Latha C A	Indonesian Journal of Electrical Engineering and Computer Science	2020	14	0	AMC Engineering college
Novel Authentication Framework for Securing Communication in Internet-of-Things,	Dr. Arun Biradar	International Journal of Electrical and Computer Engineering (IJECE)	2020	4	0	East West Institute of Technology
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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	15	237	10	5
Presented papers	25	25	5	0
Resource persons	0	5	4	14
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Cleaning at lalbhad after flower show	AMC Engineering college	3	25
Plantation at lalbhad through aikya	AMC Engineering college	5	25
Nss volunteers at bannerghatta jathara	AMC Engineering college	5	50
Nss special camp	AMC Engineering college	6	45
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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
Nil	Nil	Nil	0
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Tribute for crpf jawans martyrs (pulwama attack)	AMC Engineering college	Tribute for Fallen Martyrs	18	90
Volunteer blood donation	AMC Engineering college	Blood donation	0	120
World environment day	AMC Engineering college	environment day celebrations	0	80
International yoga day	AMC Engineering college	Yoga Demonstration for Student Faculty	0	60
One student one tree	AMC Engineering college	Samplings Planted at AMCE Campus	50	190
Independence day	AMC Engineering college	Values inculcated among Students	10	200
Plantation programme	AMC Engineering college	1000 Samplings Planted at AMCE Campus	0	123
Fund raising for flood relief	AMC Engineering college	Fund Handed over to Kerala and Kodagu Affected Areas	0	115
Gender Issue	AMC Engineering college	Raksha bandhan - Commemerative Celebaration	0	110
Yoga for good health	AMC Engineering college	Yoga Demonstration for Student Faculty	0	102
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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
Coursera On-line courses	1 Faculty from ECE Dept AMCEC	AMC Engineering College	56
NPTEL on-line courses	10 Faculty from CSE	AMC Engineering College	84
Research Publication	1 Maths Faculty from AMCEC & 2 Faculty from JNTUA &SJCIT	AMC Engineering College	365
Research Publication	1 Maths Faculty from AMCEC & 2 Faculty from Bangalore Univ.& PES Univ.	AMC Engineering College	365
Research Publication	1 Maths Faculty from AMCEC & 1 Faculty from Gayatri Vidya Parishat	AMC Engineering College	365
NPTEL on-line courses	7 Faculty from AMCEC	AMC Engineering College	56
NPTEL on-line courses	2 Faculties from MBA Dept AMCEC	AMC Engineering College	56
Joint research and consultation activities including Total Station Survey	students of Government Engineering College, Ramnagar.	AMC Engineering College	15
NPTEL On-line Courses	3 Maths Faculty from AMCEC	AMC Engineering College	84
NPTEL on-line courses	5 Faculty from ECE Dept AMCEC	AMC Engineering College	84

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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
Internship	Internship	Igeeks Technologies, Bengaluru	03/01/2020	31/03/2020	1
Internship	Internship	DUALCUBES PVT LTD, Bengaluru	03/01/2020	31/03/2020	1
Internship	Internship	Qual Cubes	03/01/2020	31/03/2020	1

		Pvt. Ltd			
Internship	Internship	Tequed Labs, Bengaluru	03/01/2020	31/03/2020	90
Internship	Internship	Techciti, Bengaluru	03/01/2020	31/03/2020	23
Internship	Internship	Bheepac Technologies P Ltd., Bengaluru	02/01/2020	28/02/2020	1
Internship	Internship	Uniq Technologies, Bengaluru	02/01/2020	28/02/2020	5
Internship	Internship	Uniq Technologies, Bengaluru	02/01/2020	28/02/2020	11
Internship	Internship	Vivarattana Technology pvt.ltd, Bengaluru	02/01/2020	28/02/2020	4
Internship	Internship	Wipro Technologies, Bengaluru	02/01/2020	03/03/2020	1
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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
CISCO	24/06/2019	CCNA Course: Introduction to Networks, Switching, Routing and Wireless Essentials	55
Environmental and recycling solutions india	18/09/2019	Dry waste management	28
Manobhu Technology Pvt. Ltd.	21/11/2019	Workshop on Recent Development in power Transmission System	115
Infosys	30/12/2019	Campus Connect Program	393
Princeton Smart Engineers	21/09/2019	1) web and dui development 2) web ui	50
ATSSL	30/12/2019	workshop and Internship was conducted from Fundamentals of	258

Machine Learning (Speech and image processing)'17th Jan to 10th March 2018 IoT Machine Learning (Audio processing image processing 1-07-2019 to 30-07-2019 Workshop program has been co

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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
802	605

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Others	Newly Added

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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 patially)	Version	Year of automation
Easylib	Fully	6.2a Web Version Up graded	2018
Easylib	Fully	4.3.2 Up graded to Multi user & New Version	2007
Easylib	Partially	3.7 Single user software License	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Library Automation	0	0	0	0	0	0

Weeding (hard & soft)	0	0	0	0	0	0
Others(s pecify)	0	0	0	0	0	0
Text Books	63697	28322701	515	120664	64212	28443365
Reference Books	9405	7196584	16	65122	9421	7261706
e-Books	10	19398	0	18933	10	38331
Journals	10292	7060010	1661	1957250	11953	9017260
e-Journals	1	153710	0	13570	1	167280
Digital Database	3510	0	0	0	3510	0
CD & Video	1	150204	0	17700	1	167904

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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
Prof. Shivalingaswamy G D	Determination of phase and line quantities in 3 phase star connected load	YouTube	26/05/2020
Prof. Shivalingaswamy G D	Determination of line and phase quantities in delta connected load	YouTube	26/05/2020
Prof. Shivalingaswamy G D	Measurement of three phase power using two wattmeter method in star connection	YouTube	26/05/2020
Prof. Jayashubha J	Relaxation Oscillator hardware experiment video recording link	YouTube	05/12/2020
Rahul B	Software Testing Vtu - Test Metrics	YouTube	03/04/2020
Rahul B	Software Testing Vtu - Test Generation Strategies	YouTube	07/04/2020
Rahul B	Software Testing Vtu - Structural	YouTube	11/04/2020

	Testing		
Amutha R	confusion Matrix	YouTube	26/04/2020
Amutha R	decision tree part1	YouTube	15/04/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	909	669	600	32	140	11	34	155	0
Added	0	0	0	0	0	0	0	345	0
Total	909	669	600	32	140	11	34	500	0

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

500 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
Handicam, Tripod, TV, Still camera, Scanner, Internet, Wi-Fi, Mike, Projector, Projector Screen, Laptop,	https://www.amcgroup.edu.in/AMCEC/image/NAAC/AOAR2019-20/video.mp4

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
250	168	680	605

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)

AMCEC has 62 Class rooms in the campus, 29 classrooms and 7 seminar halls have ICT facilities. Class rooms are allotted as per submission of requirement and are used as per allotted Time table. Faculties use teaching aids like Projectors, Laptops for teaching. Class rooms are taken care properly by Maintenance team. Institution is facilitated with 54 UG Programme and 8 PG Programme Laboratories. All the Laboratories in the campus are well equipped with latest equipment's and materials, for curriculum aspects to students as well as to motivate them to do research activities. Purchase Committee decides regarding the purchase of Lab requirements, accordingly Equipment's are procured in structured manner. Stock register is maintained and has systematic entries of procured equipment's and consumables. First Aid facility and Fire extinguishers are provided in each Laboratory. Do's and Dont's for students are displayed. Institution has sufficient ICT facilities with current trending configuration. IT admin is available in the college for Procurement of Computer, accessories, hardware and software requirements recommended by

Department Heads. Antivirus, Updating Hardware and software are done regularly. Institution has one Main Library for UG and one Main Library for PG and one reference section, managed by Qualified Librarians, and supporting Library staff. Books are procured through recommendations made by faculties, students and research scholar's requirement, are considered. Institution has organized circulation policy implemented effectively. Online e resources are subscribed to all the Programmes through the VTU E-Resources Consortium. These resources are IP based and can be accessed anywhere in the campus only available through the website. It is approved by committee/principal based on budget following terms/conditions. Stock verification is done every year by members appointed by Principal (Faculty from each department, Library staff). Silence/calm atmosphere is maintained in library. Mobile phones/Food/drinks are not allowed in library. Bags/personnel books are not allowed. Library is not responsible for personnel loss. Books are returned/renewed physically in time. Materials can be taken out after proper issue. Institution has Sports and GYM facilities in the campus to strengthen Sports/games/cultural activities. AMC cricket ground is used for NCC/Sports events. Physical Education Trainer is available to train the students for all the sports activities. Advisory committee suggests/advice on sports matter. Sport Facilities are provided by staff under guidance and is maintained well, under guidance of Physical Education Trainer. Two DG sets (125KVA and 82.5KVA) are available in the campus in case of power failure, maintained by Electrician and team. Sewage Treatment Plant (STP) is installed in the campus near the Boys Hostel, to recycle the used water. The recycled water is used for Landscaping purpose. Maintained by Facility manager and team. Institution provides Transportation facilities for Faculty Students to various main locations of the City. The Transportation is maintained by a Transport Officer and team inside the Campus. Institution has a well maintained 9 buses for Faculty Students, 4 cars are available for authorities to commute with ease. Buses are made available for Local industrial visits and extensive survey camps recommended by Heads/Principal/Management.

https://www.amcgroup.edu.in/AMCEC/image/NAAC/AQAR2019-20/4.4.2_Procedures_and_policies_for_maintain_ing_and_utilizing_physical_academic_and_support.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	Concession in Tution Fees Concession in Admission Fees Concession in Hostel Fees Freeship Free Seat Alumni Association Scholarship	596	6572849
Financial Support from Other Sources			
a) National	State GOK Social welfare OBC Supernumerary quota PMSS	1193	32146949
b) International	0	0	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 implemetation	Number of students enrolled	Agencies involved
Presentation Skills, Resume Buliding, Mock Personal Interviews	01/08/2019	450	Quantech Origin
Email Etiquettes, Interview Skills/personality Enrichment/Mangeria l Skills	03/02/2020	450	Quantech Origin
Special Classes Post the Class Hours	20/08/2020	136	Handled by Faculty Members of each Department identifying the slow learners
Vocabulary Coaching	17/09/2019	663	Dr.Rohith English Department (Humanities and Science Dept)
Addressing the students on the aspects of Mentoring and resposibilities	17/09/2019	663	Individual Faculty-in-charge, HOD, Class Co-ordinators Mentors
Meditation Classes	21/07/2019	150	International yoga day
Meditation and Yoga Practicing Classes for 3 days	17/08/2019	150	Free yoga classes AMCEC Campus Importance of Yoga Beyond Breath(Art of Living)

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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 passedin the comp. exam	Number of studentsp placed
2020	KAS Coaching/ GATE Coaching/ GRE Coaching /Communicati on Training	674	759	6	245

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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
0	0	0

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
INFOSYS Axis Bank Vergeo AGILE POINT PRACTO BYJUS COGNIZANT ENDURANCE QUINOXX TECHMAHINDRA ATOS SYNTEL NO BROKERS AMAZON iNube Mi Sensefort h.ai IBM HCL ELEATION PRAYOJANA	1935	139	TCS Kemin www.kemin.com 044 42202800 Vision Net Brightchamps Tech Pvt Ltd Infoidol Blubirch support@blubirch.com Codilar Avin Systems Pvt Ltd WIPRO Capegemini Technology Services India Ltd CGI AVRUTTI RESEARCH COVALENSE DIGITAL VERZEO VEDANTU ITTS	153	88
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
Nil	4	BE	Electronics & Communication Engineering	BMS College of Engineering BIHAR UNIVERSITY HOCHSCHULE FURTWANGEN UNIVERSITY SRH HOCHSCHULE HAMM	CNE MBA in HR MS in smart systems Masters in I nternational Business and Entrepreneur ship

2020	4	BE	Civil Engineering	RIMT UNIVERSITY PUNJAB RIMT UNIVERSITY PUNJAB DAYANAND SAGAR UNIVERSITY DAYANAND SAGAR UNIVERSITY	MTECH MTECH MBA MBA
2020	7	BE	Mechanical Engineering	AMCEC RVCE AMCEC AMCEC UNIVERSITY OF WINDSOR AMCEC COVENTRY UNIVERSITY, UK	M.T.ECH(MD) M.TECH(PDM) MTECH(MD) MTECH(MD) MECHANICAL ENG MTECH(MD) MS
2020	3	BE	Computer Science Engineering	Jain (Deemed-to-be University) Vellore Institute of Technology Dublin Business School	M.Tech Artificial Intelligence M.Tech(CSE with special ization in Big Data Analytics) MS in Data Analytics

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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
Nil	0

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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
Inter department Hockey competition	Institutional	110
Basket ball competition	Institutional	52
KHO-KHO selection for First Year Students	Institutional	30
Inter departmental Cricket Selection	Institutional	215
Fresher Party for CSE Students	Institutional	180
Teachers Day Celebration	Institutional	120
Ethnic Day Celebration	Institutional	650

Womens Day Celebration	Institutional	80
Colosseum 2019-Intracollegiate Fest For AMCEC Students	Institutional	650
First Year Inuagral Function	Institutional	500
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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nil	Nil	Nil	Nil	Nil	Nil	Nil
View File						

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

Students constitute a major stakeholder in the institute growth. The institute maintains an excellent affinity with the student community. The opinions and perspectives of the students are paid attention to by the institutional authorities. Some of the bodies/committees that have student representation are as follows. Course Coordinator Committee In every program, for every course there is a course coordinators' committee. This committee has representation of both students and faculty from the respective class. The inputs from the students are taken into consideration. This committee conducts meeting 4-5 times in a semester, discusses and passes resolutions on the following: ? Framing the Course Outcomes and setting target levels ? Analysis of assessment test results ? Syllabus for Internal Assessment tests Anti-sexual Harassment Committee / Anti-ragging Committee Both faculty and students are part of these committees. The student member interacts with other students and visits the hostel, canteen and other places along with the faculty to provide awareness regarding ragging free atmosphere and gender sensitization. Student representatives bring unfortunate incidents happened among the students to the notice of committee. Sports / Cultural Committee The Physical Education Director and the student coordinators form a sports committee to organize the sports events like VTU, KSCA Cricket league and other intercollegiate competitions. During cultural fests like Colosseum and Mélange, students form committees of their own for various purposes and conduct periodic reviews before the commencement of the festival. They collect the funds through advertisements and manage the same. Tasks like crowd controlling, discipline, safety and security during the conduct of the events are efficiently handled by the students. E-Cell Committee The E-cell-IGNITE was established in the year 2016 and this works in collaboration with National Entrepreneurial Network. This committee is managed by the students with the support of the faculty members. Every week, the student coordinators conduct one-hour session on Entrepreneurship to train the students to become a successful Entrepreneur. NSS Committee The NSS student volunteers from different departments actively participate in organizing the events like Republic Day, Blood Donation camp, Ayurvedic Workshop, etc. Students form various teams for cleaning, teaching, cooking, election campaigning, Maintenance, and cultural. They organize the events like Government School, Village and Temple cleaning, Girls Awareness Program and Campaigning about Election. INCUBE INCUBE is a multifaceted club which concentrates on over all development of students nurturing them in every

single aspect of their career. Students from all departments work together to come up for advanced solutions, incubate and assist good ideas to grow as ultimate reality. Student members constantly conduct research meets and talks to enhance the knowledge and latest trends of technology with the help of the faculty in charge. C-GEETA Centre for Global Environment and Eco-friendly Technology Application, Department of Civil Engineering has adopted and working with Tamil Nadu Govt. for model village project at Noorundu Swami Malai, Kottaiyur Panchayat, Krishnagiri (Dt.) in Kaveri Crater.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute has a strong alumni association which is registered in the name of "The Alumni Association of AMCEC", Bengaluru on 3rd November 2014 with Society Number: JNR-S272-2014-15. The Association has opened an Account in the "State Bank of India", AMC Campus branch to operate the funds for various Alumni activities. The associations functions and operates as mentioned in the Bye-laws such as conducting technical programmes, arranging lectures by eminent persons, newsletter, cultural, literary and sports activities. The main objective of the Alumni Association is to work in close association with the college authorities for the overall development of the college. The Alumni Association provide Lifetime Membership to all the passed-out students. Presently there are 4000 Lifetime Members on the roll of this Association. All the members of the Association are engaged in promoting the cause of their alma mater and the society in general. Since its registration, The Annual Meeting of the association is held every year. All the valid members of the association are intimated about the meeting. In the meeting printed Annual Work Report and copy of Audited Account of income and expenditure of the preceding year are distributed to the members. Members actively deliberate on these and finally Meeting is held every year under the Chairmanship of Principal, AMC Engineering College on 3rd Saturday of December month. Alumni association conducts one general house and three or four executive meetings in the college every year. College coordinator, an alumni faculty member, acts as conveyer between the alumni association and college. Alumni association invites all faculty members in their general house meeting. The objectives of the associations are • To provide platform for interactions • To provide financial helps to needy students • To organize lectures/seminars and symposium • To felicitate teachers and employees • To provide expertise to alma maters • To generate financial support to college

Alumni Feedback: The alumni of the college who have working in companies or for higher education also give a feedback on how their experience in the college have facilitated them to perform in their places of work or study. The alumni also give productive suggestions on helping the existing students achieve greater focus and improving themselves. A. Feedback from alumni Feedback is obtained from Alumni, when they come to the college to get their original Certificates / Degrees on completion of the course and attend the Alumni Meet arranged by the college. Based on the feedback, the necessary recommendations are proposed before the IQAC for discussion. The recommendations made by the alumni, subsequently discussed and approved by the IQAC. By knowing the latest technologies in existing market, training will be given to the students by the alumni. Principal and IQAC members will take initiative to meet the members of the Alumni association and will request them to be more involved in the development of the college.

5.4.2 – No. of enrolled Alumni:

698

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

5.4.4 – Meetings/activities organized by Alumni Association :

For Academic Year 2019-20 In 2019-20 2 events were conducted in CSE Dept on 07/03/2020 10/08/2019 with participants 136 5.4.4 Alumni Activity Report The Institute has a strong Alumni Association which is registered in the name of "The Alumni Association of AMCEC", Bengaluru on 3rd November 2014 with Society Number: JNR-S272-2014-15. The Association has opened an Account in the "State Bank of India", AMC Campus branch to operate the funds for various Alumni activities. The associations functions and operates as mentioned in the Bye-laws by conducting technical programmes, arranging lectures by eminent persons, publishing Alumni newsletter and organizing cultural, literary sports activities. Every year second Saturday of December, the alumni meet will be organised. The alumni meet is hosted by the management generously and the alumni are honoured with mementos. Due to Covid Pandemic, Annual Alumni Meet 2020 is not organised by the management. Once the Covid situation is under control Management has planned to organise Annual Alumni meet. Dr. A. G. Nataraj, Principal AMCEC President of Association had instructed all the departments head to organise the department alumni meet Online on convenient time. Every department had conducted the online alumni meet at the department level in the month of March and September. Around 30 to 50 alumni participated and expressed their happiness to for conduction alumni meet during Covid situation. The alumni sponsor scholarship every year to meritorious students of all branches who are economically weak is given by the alumni association. Scholarship of Rs. 5000/- is given to one student from each department who is selected by the respective department head. At the end Alumni shared their experiences, knowledge and advised the students. Through these a strong bond is created between the passed- out students and the current batch. Heads of the department expressed their gratitude to all the alumni who attended the meet. In 2019-20 2 events were conducted in ECE Dept. on 09/03/2019 07/09/2019 with 35 participants In 2019-20 1 event was conducted in ISE Dept. on 07-03-2020 with 83 participants In 2019-20 1 event was conducted in EEE Dept. on 15-03-2020 with 10 participants In 2019-20 1 event was conducted in MBA Dept. on 11-18-2019 with 21 participants In 2019-20 1 event was conducted in CIVIL Dept. On 3-28-2020 with 43 participants In 2019-20 1 event was conducted in ME Dept on 16/03/2020 With 20 participants In 2019-20 1 event was conducted in MCA Dept on 21-12-2019 with 19 participants

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institute practices a participative management at all levels. Whenever the management takes important decisions it ensures that such issues are discussed in the BOG, then only they are implemented. Principal always discusses all important issues in the HODs meetings for their suggestions and opinions. In turn HODs monthly conduct departmental faculty meetings to discuss all academic issues, innovations, requirements and opinions are sought. Issues concerning with students are discussed in the CRs meeting, their suggestions are taken into confidence before implementation. Suggestions from stakeholders are considered, discussed and if found suitable implemented following transparency and fairness. All the academic administrative issues like budget, recruitment, purchases, admissions, promotions, conferences, etc., are discussed transparently considering the joint consensus of all the concerned and decisions are taken for implementation The case study of the preparation of Academic Planner, time table subject allocation The institution functions with

the method of decentralized governance system. The head of the department has been bestowed with the authority of deciding the activities and delegating the responsibilities to the staff members. The department decides timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops and recommends necessary industrial visits, in-house trainings, internships and M o Us. The institution is functioning effectively with the culture of participative management which enable the faculty and students to give their opinion and suggestions for improvement. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, HODs' meetings with Principal. The Principal coordinates with the departments, administration and management..

Every year Academic Calendar is prepared at the closure of the previous academic year in accordance with the University Academic Calendar. Principal will convene the HODs' meeting., Dean, HODs, Training Placement, Librarian and Director of Physical education will attend the meeting. The schedule of the following will be discussed and finalized in accordance with the schedule received from affiliating university ? Re-opening for the next academic year, Working days / test days / Conferences/ Department Symposium /Association activities ? IEEE, ISTE, SAE, ACCI and CSI activities/ Guest Lectures ? Video Classes/ Industrial Visits /Internships /Placement Training ? Internal Quality Audits/ External Audit ? FDPs / Workshops / IQAC Meetings/FDP Meetings ? Mini Project Exhibition - III years ? Project Exhibition - Final year ? Project Exhibition - First year ? Blood donation camp, NSS camp and NCC camp ? College / University Sports/ College Functions like Induction Day, Women's Day, Engineers' Day, Teachers' Day, National Science Day, Sports day, College day, Cultural activities like Colosseum, Mélange, and Graduation Day etc.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	? The admissions guideline as prescribed by the affiliating University is followed along-with the merit list reservation policies to achieve UG admissions. For PG students, admission takes place on the bases of entrance examinations/counseling conducted by KEA or by the Government/Affiliating University. The State Government norms are followed in admitting 50 percent of the PG students through Government quota. Remaining 50 percent of the seats are filled by the management exercising its privilege to fill the seat. A dedicated admission team makes sure the admission process is carried out in a transparent and fair manner.
Industry Interaction / Collaboration	? Bring about active industry-Institute collaboration, some of the Governing Council and the IQAC members are Industry experts who provide timely

inputs. The Placement cell provides pre-placement training every academic year to make students industry ready. Many on-Campus placements have taken place through companies like Allegion, Capgemini, Concentrix, Infosys BPM, Vantage Agora, Mahindra, and Wipro Technologies, more than 200 students have been successfully placed. Through Off-campus drive, students have been placed. Industry experts regularly visit campus to deliver guest lectures, interact with students. Many engineering departments carry out consultancy projects in collaboration with Industry to solve real-life business problems.

Human Resource Management

? The administrative and academic departments in the college are well established. All records of staff members are well maintained and updated. The HR department takes care of employee grievances and regular surveys are carried out amongst faculties and students to find their satisfaction levels. Various committees like grievance redressal committee, staff welfare committee, sexual harassment elimination committee have been instituted. Group insurance policies have been provided to insure faculties and students. Faculties are motivated to participate in FDP, seminars, conferences, workshops, refresher orientation courses etc. Non-teaching staff are regularly provided training in disaster management, campus behavior, hospitality etc.

Library, ICT and Physical Infrastructure / Instrumentation

? As in the previous years, in 2019-20 also, the college infrastructure has been upgraded which includes classrooms, labs, sports facilities, ladies lounge and other supporting facilities. The budget allocated for infrastructure augmentation has increased in the year 2019-20. Especially, when compared to the previous years. Many E-Resources have been added to the library to facilitate the research spirit among students and faculties. For the maintenance of physical facilities and academic support facilities, the expenditure has increased. Battery operated cars have been introduced for easy mobility around the campus.

Research and Development

? Faculties regularly publish

research papers in UGC recognized journals and some of the faculties have successfully published books too. To facilitate research, the college has purchased Plagiarism software. Teachers and students have actively participated and presented papers in various national and international conferences and have also attended AICTE sponsored training programs. Faculties are regularly awarded for their innovative teaching practices. The Entrepreneurship Cell regularly conducts programs to kindle the student's interest in Startups. Students are encouraged and supported to go for Start-Ups. Interdisciplinary research projects also encouraged among faculties and students. The Institute has established many functional MOUs Industries.

Examination and Evaluation

? For continuous evaluation of students, the exams are regularly monitored by the IQAC cell. To make sure exams are conducted in a smooth manner. Students and parents regularly receive messages regarding examinations. Each student is internally evaluated based on their unit test performances, projects internships, and assignments along with co-curricular activities every semester. The Examination department make sure examinations are conducted without any malpractice.

Teaching and Learning

? The Teaching Learning process has become more student-centric, by applying interactive learning methods like Blended MOOCs through teaching aids like Computers, LCD slide projectors, charts, models, etc. lectures are further strengthened with tutorials, remedial classes, GDs, assignments, live projects, seminars, and student paper presentations. All the departments use experiential learning methods like laboratory work, obtaining grants and funds from reputable agencies to work various projects, building prototypes, industrial visits, science exhibitions. great success. Most of the departments have upgraded the latest infrastructure especially about labs. In collaboration with industry, Computer Science department has set up labs called- Tequip labs

Curriculum Development	<p>? The Institution carries efficient curriculum delivery through an effective system. A Committee prepares the College level academic calendar based on Affiliating University's Academic calendar of Events. Every department prepares its own Calendar of Events based on the college level academic calendar. the Departmental timetable is prepared teacher, class and subject-wise. The curriculum delivery objectives are fulfilled through Academic calendar. Competency mapping of the teachers are carried out by each department. Before the onset of an academic year, faculties prepare subject wise lesson plans. Through DHI, timely feedback is obtained regularly from students regarding faculties, course outcomes and content delivery</p>
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6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	Administration of faculties and students are implemented through the ERP software called DHI. Which has SMS based information dissemination
Student Admission and Support	<p>1. Admission details are made available with the ERP software called DHI. 2. Online feedback system is available in ERP software. 3. Conduction of online classes through Google classroom, Zoom meeting and other software's. 4. Integration of mail access in CAMPUS portal. 5. SMS dissemination module integration. 6. Student attendance and progress reports made available with ERP system. 7. Digitized library system with separate account for every student.</p>
Examination	<p>1. Online exam conduction- through Google classroom. 2. Creating question papers on DHI software. 3. Selecting question types. 4. Conducting quiz and assignments through DHI. 5. CIE marks can be viewed by the students in ERP software. 6. Exams are conducted according the university Rules and Regulations.</p>
Planning and Development	E-governance planning and development in a form of educational technology facilitates learning via online courses and contents. Unlike traditional forms of classroom education, e-learning is always available, highly adaptable to each student's level of current

	knowledge through the ERP software called DHI. There is a digitized library to access the materials online through separate account for students and the staff through NIMBUS account.
Finance and Accounts	Online fees collection module with receipt generation system is implemented through college website. Accounts department is using Tally software for finance management.

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	Prof Vineeta	Research Conference on IoT, Cloud and Data Science.	Nill	4750
2020	Prof. Shalini S	International Conference on advances in information Technology	Nill	3500
2020	Prof. Nandita	Software Testing - NPTEL - AICTE FDP	Nill	50
2020	Prof. Vineeta	Python for data science - NPTEL	Nill	500
2020	Prof. V R Srividhya	Operating system Fundamentals - NPTEL	Nill	550
2020	Kothai Andal C	DC Microgrid - NPTEL	Nill	750
2020	Prof. Manjunath C	Global Conference on "Advanced Smart and Sustainable Technologies (GCASSTE-2020)	Nill	1375
2020	Prof. Rudra K S	Global Conference on "Advanced Smart and Sustainable Technologies (GCASSTE-2020)	Nill	1375
2020	Prof. Premkumar Naik	Global Conference on	Nill	4750

		"Advanced Smart and Sustainable Technologies (GCASSTE-2020)		
2020	Prof. Manjunath C	International Journal of Mechanical and Production Engineering Research Development (IJMPERD) - Research paper publication	Nil	4750
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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)
2020	Latex Workshop	Nil	29/06/2020	01/07/2020	102	Nil
2020	Devops: Containerisation with docker	Nil	07/07/2020	09/07/2020	97	Nil
2019	Two days training program on "Edgecam Software"	Nil	29/07/2019	30/07/2019	40	Nil
2020	FDP on Processing and Characterization of Metal Matrix Composite	Nil	29/01/2020	29/01/2020	45	Nil
2020	Nil	Training on software and Equipments for lab instructors	28/02/2020	29/02/2020	Nil	79
2020	Awareness on Block chain and MACOS	Nil	30/01/2020	01/02/2020	49	Nil

2020	indo-us Workshop on Hazardous waste management (HMM)	Nil	10/02/2020	12/02/2020	152	Nil
2020	STTP FDP/VTU Tequip on Upskilling Total Station And IRNSS	Nil	09/01/2020	13/01/2020	187	Nil
2019	Workshop on IOT	Nil	21/09/2019	21/09/2019	54	Nil
2020	Webinar on Machine Learning, Spring Boot, Spring MVC and Hibernate	Nil	23/05/2020	23/05/2020	90	Nil
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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 programme	Number of teachers who attended	From Date	To date	Duration
Research trends and challenges in computer science	1	13/07/2020	17/07/2020	5
FDP: online teaching learning processes using ict tools for education 4.0	1	08/06/2020	Nil	6
6 day Training on CareerEdge: Knockdown the lockdown" by TCSiON	1	27/04/2020	03/05/2020	7
Big data engineering	1	01/06/2020	05/06/2020	5
6 day FDP on Modern Web Application	1	08/06/2020	13/12/2020	5

Development on MeanStack"				
Machine Learning and Deep Learning with H2o.ai by DSATM	1	28/01/2020	01/02/2020	5
3 days online FDP on Exploring Machine Learning Algorithms and Applications from conducted by Kongu Engineering College.	1	21/05/2020	23/05/2020	3
3 days online FDP on "IOT and its Applications" , conducted by RYMEC.	1	27/05/2020	Nil	3
5 days webinar on Recent trends in Information Technology by Department of ISE, Bangalore Institute of Technology	1	02/06/2020	06/06/2020	5
Two days National Level Workshop on Free ICT Tools for E-Content Development Online Teaching conducted by PeriyarManiammai Institute of Science and Technology, Thanjavur, Tamil Nadu	1	06/06/2020	07/06/2020	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
274	274	268	268

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
22	15	15

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: Internal audit is an ongoing continuous process done by Auditors of the trust every 6 months - Vouching of receipts and postings to ledger, TDS deductions, and payments, Scrutiny of scholarship disbursement registers, Preparation of receipts and payments and Submission of Audit report.

External Audit: External Audit is conducted yearly by Muralidharan Manogaran and the last audit was on 18/03/2021. External agency thorough scrutiny of payments and receipts, Verification of head of accounts wise expenditure, Capital expenditure verification with bills, quotations received and comparative statements, The finalization of Balance Sheet by external auditors after examination of books.

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
IE, AICTE-ISTE, AICTE MODROBS FUND, National Testing Agency, Individuals, NSEIT, Pangea Consultancy Services, Printston Smart Engineers, Aptech Limited, ATSSL, Perfect Manpower Consultancy, C-DAC, TCS, SPPL, TEQIP,VTU	19496330	National conference on VLSI communication and computer networks, AICTE-ISTE Induction Program for faculty of Technical Institutions, Modernizing research and hardware interfacing Lab, Assessment Association, Alumni Sponsorship, Assessment Association, Assessment Association, Workshop Sponsorship, Assessment Association, Workshop Sponsorship, Assessment Association, Assessment Association, Assessment Association, Short Term training program on professional skill development for students
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6.4.3 – Total corpus fund generated

3720000

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	Tier-1 Institution	Yes	Principal and Dean
Administrative	Yes	Tier-1 Institution	Yes	Principal and Dean

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

• Parents are invited for Induction Program of the First year students, they are oriented about the college facilities available and suggestions are invited from Parents. • Regular Parent – Teacher meeting is conducted by all the departments, Mentors introduce themselves to the Parents of Mentees. On this platform parents interact and share their concerns about their ward with Mentors, which helps Mentors to understand the students better. • Many Parents attend National festivals organized at the college.

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

1. Workshop on Effective Communication 2. Training on software and Equipment's for lab instructors 3. Training on Metrology and Measurement Material Testing Lab

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

• Enhanced employability by implementing personality development programs, Value added certificate courses pre-placement training program for the students. • Career Guidance and Placement Cell strengthened. • Publication of Journals of international standards Upgraded library by subscription to e-journals. • Seminars, conferences and invited talks arranged for students Faculty Members.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Webinar - Contemporary Trends: Employment Opportunities Employability skills	25/07/2020	25/07/2020	25/07/2020	60
2020	Webinar - Maheepathi Talks, Live Talks on Emotional Intelligence Resource person Dr. T.Uma Devi	16/10/2020	16/10/2020	16/10/2020	77
2020	Two days	29/07/2020	29/07/2020	30/07/2020	40

	training program on "Edgecam Software"				
2019	workshop on Python with machine learning	26/08/2019	26/08/2019	28/08/2019	22
2019	Workshop on IOT	21/09/2019	21/09/2019	21/09/2019	54
2019	One day training on Energy conversion Fluid Mechanics lab	26/09/2019	26/09/2019	26/09/2019	19
2019	Workshop on Virtual Reality	01/10/2019	01/10/2019	01/10/2019	55
2019	Recent Developments in Power Transmission System	11/11/2019	11/11/2019	11/11/2019	54
2019	FDP on Research Methodology	18/11/2019	18/11/2019	19/11/2019	74
2020	Webinar - Rediscovering Strategies in Managing Transition Upskilling workforce resource person Dr.T Uma Devi	06/07/2020	06/07/2020	06/07/2020	52

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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
International Women`s Day	03/08/2020	03/08/2020	100	55
Workshop on Self-Defence for Women	12/02/2020	12/02/2020	347	0

Our rights for Women	08/01/2020	08/01/2020	262	200
Stress Management with Yoga	11/12/2019	11/12/2019	100	72
Session on Women`s Empowerment	20/09/2019	20/09/2019	148	100

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

Percentage of power requirement of the University met by the renewable energy sources
<p>The institution has been replacing the traditional tube lights with LED lights in the past 5 years. This has led to a power saving of about 3690 units/year. Hybrid plant and few solar streetlight are installed in the surrounding premises of the institution. During 2018-19 a total of 52 No of CFL lights with rating of 36 W each were replaced with 16W LED lights, thus reflecting a total saving of 2437 units/annum. Similarly, replacement of 20 No of CFL lights with rating of 18 W each were replaced with 9W LED lights, thus reflecting a total saving of 421 units/annum. Thus total annual power saving 2858 units/year. ? Total power requirement of the institution is 250 KVA/ month ? Power requirement met by renewable energy sources - 21 KVA / month ? Renewable energy source is Hybrid Power plant (Solar and wind) ? Renewable energy generated and used - 21 KVA Grant / used 21 KVA ? Energy supplied to the grid - Nil</p>

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	0
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	No	0
Any other similar facility	Yes	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
2020	4	5	01/10/2020	1	Swatch Bharath by	A mission of cleanl	345

Faculties
 Bannerghatta Road
 Free Yoga
 Classes
 VENUE:
 AMC
 Campus
 One
 student
 One Tree
 VENUE:
 AMC
 Campus
 Yoga
 Classes
 VENUE:
 AMC
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 AMCEC
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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	01/08/2019	The handbook is issued to every student. The handbook contains the information regarding Various Committees in the Institution(Academic Monitoring Committee/Disciplinary Committee/Internal Complaints Committee/Anti-Ragging Cell/ Anti-sexual Harrasment Cell/Campus Gardening Cell/E-Cell/Rajabhasha Cell/Campus Parking Cell. The information provided in the handbook regarding committees are the objectives, Committes

roles and responsibilities, Committee Members, functions of the cell. Each committee will be headed by a Institution Co-ordinator. The department co-ordinators will be the committee members. Meetings are held regularly to make decisions, exchange opinions and make recommendations.

Service Rules for faculties

01/08/2019

The Governing Management holds the meetings to update the service rule handbook. The Service rule handbook consists of details regarding Faculty recruitment, Pay and other allowances, Performance Appraisal, Norms for availing Leaves, Code of Professional ethics along with duties and responsibilities of various cadres with regard to the student and Institution, Employee Provident Fund, Pension Scheme, Delegation of financial powers, Travel Expenses Reimbursement, Sexual Harassment Prevention Policy.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Bakrid	13/08/2019	13/08/2019	50
Ganesha festival	03/09/2019	03/09/2019	100
Teacher's Day	05/09/2019	05/09/2019	500
Onam	11/09/2019	11/09/2019	300
Engineers Day	15/09/2019	15/09/2019	400
International day of older persons/National Voluntary Blood Donation Day	01/10/2019	01/10/2019	150
Gandhi Jayanthi/Swath Bharath Day	02/10/2019	02/10/2019	180

Dasara festival	08/10/2019	08/10/2019	200
National Police Day	21/10/2019	21/10/2019	150
Kannada Rajyotsava	01/11/2019	01/11/2019	250
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

• The lawns and the trees provide shade and beautiful ambience. Utmost care is taken to develop and maintain green landscaping by trained gardeners and supervisor. The construction, maintenance and beautification committee constituted in the college looks after the development and maintenance of the greenery in the campus. • As the college campus depends on ground water for all its needs, a total of 5 bore wells were constructed in the campus. • Waste Water Recycling is available using Tertiary Treatment Methodology called UFASBR technology for 10/10 standards as per CPCB and KSPCB norms. • Mails are extensively used to ensure that the office is paperless to a large extent. • Installation of ample number of power saving LED lights in campus 2. Campus Automation • Objectives of the Practice i) Create software which will manage the working of different modules such as student, faculty, admin etc. ii) Simple easy database maintained iii) User interface is user friendly iv) To reduce time for accessing the information v) To reduce paper work of college vi) To generate various reports on demand • The Context College management is becoming a very essential component in education in this modern day age. With the help of College Automation System we can gather all the useful information needed to the management in few clicks. It helps streamline all academic and administrative operations. • The Practice AMC Engineering College is fully automated using DHI Software automation system which facilitates the processes followed by the college in its entirety and enables them to be streamlined. It helps in reducing the time spent, saves cost and enhances the experience of Management, Faculty, Parents and the Students involved in the system. College Automation System provides a list of applications to support various educational, administrative and operational needs of the College. DHI Software provides a list of applications to support various educational, administrative and operation needs of the institution. Each of these applications are built to be able configure and customize for needs of the college

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. ICTBasedTeaching-Learning • Objectives of the Practice The objectives of ICT based teaching learning: i) ICT brings inclusion for students to learn the material ii) To enhance subject learning iii) To motivate and promote higher order thinking skills iv) To equip learners with the appropriate social skills required to cooperate with fellow ICT learners for a more productive learning experience v) To facilitate good communication between the students, thus promoting better social understanding vi) To help students to become competent and confident users who can use the basic knowledge and skills acquired to assist them in their daily lives • The Context Information and Communication Technology (ICT) in education is the mode of education that use information and communications technology to support, Enhance , and optimize the delivery of information. Worldwide research has shown that ICT can lead to an improved student learning and better teaching methods ICT helps teachers to interact with students. It helps in improve Teaching skill, helps in innovative Teaching. It helps in effectiveness of classroom. It also helps in improving professional Development and Educational management as well as enhances Active Learning of teacher Trainees. 2. Campus Automation • Objectives of the Practice

i) Create software which will manage the working of different modules such as student, faculty, admin etc. ii) Simple easy database maintained iii) User interface is user friendly iv) To reduce time for accessing the information v) To reduce paper work of college vi) To generate various reports on demand • The Context College management is becoming a very essential component in education in this modern day age. With the help of College Automation System we can gather all the useful information needed to the management in few clicks. It helps streamline all academic and administrative operations. • The Practice AMC Engineering College is fully automated using DHI Software automation system which facilitates the processes followed by the college in its entirety and enables them to be streamlined. It helps in reducing the time spent, saves cost and enhances the experience of Management, Faculty, Parents and the Students involved in the system. College Automation System provides a list of applications to support various educational, administrative and operational needs of the College. DHI Software provides a list of applications to support various educational, administrative and operation needs of the institution. Each of these applications are built to be able configure and customize for needs of the college

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

https://www.amcgroup.edu.in/AMCEC/image/NAAC/AOAR2019-20/7.2.1_Best_Practices_1&2-2019-20.pdf

7.3 – Institutional Distinctiveness

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

A. RegularConductionofStudentCentricLearningApproach Student engagement is a perpetual issue for high schools. When students commit themselves to the process of learning,academic outcomes can soar.And when studentsdon'tfeelengaged and inspired,their academicachievementcantumble. Student-centered learning works by connecting students' interests with the thingstheylearnin theInstitution. • Bridgecourse/Orientationprogramaregiveninthebeginningofeachsemester. • Placemen ttrainingprogram/personalitydevelopmentprogram/SoftSkillProgramsareconductedfor prefinal yearstudents • Orientation ProgramonOBEandOBEpracticeatthebeginningoftheyear • OrientationProgramontheICTToolsforthestudents. • Periodical conduction of conferences/workshops /seminars at thenational/internationallevel • Internshipspracticesbythestudents • ConductionofvariousAdd-onCoursesforthestudentstomakethemindustryready. • CertificationCoursesforthestudentsintheirareaofinterest. • Crashcoursesconductedbythestudentsforthestudents • Crashcoursesattheendofthesemesterasrevisionforthestudents. • Projectsareprovidedtostudents • Encouragestudentcollaborationandgroupprojects. • GroupDiscussionsareencouragedforabetterunderstandingofthecourse • Expert lectures are organized frequently to enable the students to follow the latest news in the course. • Self-learningassignmentstoinculcateconcernforsociety,ethics,andenvironment. Studentswrite assignmentsthreetimes alongwithtests. • Every semester, the industrial visit is organized by the department for thestudents. Each year, students are taken to different companies and by theendofthe coursetheywouldhavegotworkingideasof variousdomains. • Students have access to a digital library of AMCEC. Digital contents can beread anywhere,anytimeandhelp inquickaccessto relevant contents. • Students are encouraged to participate in National level Project Exhibitionstoexhibittheirtechnicalskillswhichbuildthecon fidenceamongthestudentsto facethe challengesandsolvethereal-worldproblem •

Animation and video presentations are used to explain the working of engineering concepts.

- Simulator based teaching is followed for some of the courses which involve complex circuits. A simulation tool is used to explain the analysis of the output.
- The NSS volunteers of this institution have played vital role in the institution program and off-campus programs (day camps/week camps towards social -economical -cultural-traditional-ethical-academic values).

Teaching Learning Process followed by Faculties •

Online classes through Zoom/CISCO Webex/Google Meet •

Flipped classroom for few subjects. •

Quiz would be created through Google Forms/FlexiQuiz •

Assessment submission through Google Classroom •

Course materials are uploaded in Google Site/GCR •

The video recording of the lectures are uploaded in YouTube Channel in order to allow the students to access it at their own pace. • Department Blogs are periodically updated. • NPT

EL video links are linked to the department blog where

students will access videos of NPT lectures • Department of Computer science and engineering is organizing German classes for students as German is among the ten most commonly spoken languages in the world • Proctor System is followed. Smart use of resources, connecting student

for support learning and networking. Student will be allotted a proctor based on their language and domicile so that they can effectively communicate with them and can seek help for academic and personal problems which they are facing. Through this, proctors help them to identify their personal capabilities, set their goals, choose an appropriate career path and make them focus on their academic growth. This can also help them to improve communication and leadership skills.

Provide the weblink of the institution

https://www.amcgroup.edu.in/AMCEC/image/NAAC/AOAR2019-20/Final_7.3.1_Institutional_Distinctiveness-2019-20.pdf

8. Future Plans of Actions for Next Academic Year

Future Action Plan 2019-20

- 1) AMC Engineering College has been initiating and implementing various activities to improve quality in the aspects of academics, co-curricular, extracurricular activities, research, entrepreneurship and faculty development.
- 2) Need-based expansion of new programs and strengthening of the existing programs.
- 3) Reach all the curriculum through field visits, internships, project work, add-on certificate courses and collaborations to bridge the gap between academia and industry.
- 4) Maximize National / International Conference, Faculty Development programme, Organize community service activities.
- 5) To increase research publications in indexed journals, to promote entrepreneurship and innovation.
- 6) To increase the number of collaborative research and consultancy with industries, increase more number of patent filing.