



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. M. CHANDRASEKHAR
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08632524117
Mobile no.	9848083358
Registered Email	principal@chalapathiengg.ac.in
Alternate Email	chalapathientech@yahoo.com
Address	Chalapathi Nagar, LAM
City/Town	GUNTUR
State/UT	Andhra Pradesh
Pincode	522034

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Prof. N. Satyanarayana
Phone no/Alternate Phone no.	08632524117
Mobile no.	9490429612
Registered Email	cietiqac2015@gmail.com
Alternate Email	iqacciet2015@gmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://www.chalapathiengg.ac.in/IOAC/AQAR_2018-19_report.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.chalapathiengg.ac.in/2018%20index/201920.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.05	2016	02-Dec-2016	01-Dec-2021

6. Date of Establishment of IQAC	01-Jul-2015
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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
Regular Meeting of IQAC	07-Sep-2019	20

	1	
Ensured that the regular academic activities like completion of syllabus, conducting of exams, preparation of progress reports etc., are carried out as per the academic calendar up to 19.03.2020	02-Mar-2020 1	1660
Ensured that mentor-mentee system is implemented scrupulously	16-Mar-2020 1	1660
Ensured that feedback was obtained from all stakeholders by the respective departments.	19-Mar-2020 1	1660
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Computer Science and Engineering	STTP	NITTTR-K	2019 5	14025
Computer Science and Engineering	Grant for Conference	AICTE	2019 2	166667
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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 :	1
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)

Quality Calendar prepared and the implementation is ensured

Ensured that all faculty prepare their course files and department files in time

Ensured collection of feedback from all the stakeholders by each department

Ensured the conduct of Sessional Exams as per the pre announced schedule and posting of marks on time

Encouraged Departments to enter into MoUs with several academic and industry bodies.

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

Plan of Action	Achivements/Outcomes
Arranging training on both hard and soft skills to II, III , IV B.Tech Students by internal and external Professional Trainers.	Quality and quantity of Placements improve,
Training by experts on the accreditation process of NAAC, NBA and the OBE	Faculty are enabled to understand the philosophy and the process of OBE and prepare the appropriate documentation.
R&D publications in indexed National / International Journals & Conferences.	Considerable increase in number of conference and journal papers of which some are indexed.
Sponsoring of students for Internships	50% of the final year B.Tech students attended the internships. Due to COVID Pandemonium the remaining students could not attend the internships.
To improvise the number of placements of final year B.Tech students.	For the current year, number of placements is one hundred and forty-nine which is better than that of previous year.
Encouraging the faculty to attend conferences, workshops and FDPs.	Improvement in the number of FDPs attended by faculty.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Academic Council	24-Apr-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	29-Oct-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	31-Dec-2019
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)	<p>Management Information system is in use by the institute for the following Institutional activities: 1. SMS gateway to send important notifications to different stake holders. 2. Installation and monitoring of CCTVs at various parts of the college. 3. Communicating important information to the stakeholders through website and conventional methods. 4. Anytime Learning system in the Library using online portal. 5. Chalapathi Institute of Engineering Technology has an informative website (http://www.chalapathiengg.ac.in/). It aims at providing information to all stakeholders of the college. It has modules like Academics, Departments, Examinations, Placements, IQAC. The Academics module provides information about various programmes offered, admission process and syllabus of each course. The Departments module displays the complete profile of each department like Vision, Mission, Faculty details, study materials, Infrastructure Details of department, Events Organized etc. Infrastructure module provides information about the sophisticated infrastructure facilities available at the college premises like library, hostels, various laboratories, transport facilities etc. Examination module provides complete information for the students regarding exams like time tables, examination circulars, pattern of question paper, old question papers etc. Placement module includes</p>

ongoing placement activities, training schedules, preparation material, number of students who obtained placements in the college. The internal Quality Assurance Cell (IQAC) module provides information about all the academic activities conducted to enhance quality in academics. It also provides information about all the activities conducted in the campus. Approvals, Affiliation and accreditation information of the college is also displayed in the institute website.

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

According to NAAC and NBA accreditation guidelines, the institution is strictly implementing the Outcome Based Education System. Proper curriculum planning & delivery, assessment and evaluation are all ensured as follows: 1. The affiliating university (Acharya Nagarjuna University) publishes the academic calendar in the beginning of the academic year notifying the instructional days, internal and external examination schedule, vacation periods etc., and the same is circulated among the faculty and students for the information and implementation. 2. Comprehensive course files consisting of syllabus, lecture plan, lecture notes/study materials, course outcomes, and its tagging with cognitive levels, knowledge categories, program outcomes, program specific outcomes, question bank, assignments and model test papers are prepared much before the academic session and the faculty stick to it. 3. The formative assessment of students is carried out through assignments, classroom performance and internal assessment exams. The Mid-term exams and assignments and the performance of the students are mapped with the course outcomes. 4. The course level attainments and program outcome attainments are calculated and are used for necessary improvement. 5. Feedback and monitoring on curriculum delivery is done through a wide-variety of mechanisms such as regular formal meetings of class representatives (class interaction committee) with the Head of Departments, Academic Council Meetings etc. Teaching Pedagogies 1. There is a defined mechanism to conduct remedial and enrichment programs. While remedial classes are typically conducted after the regular college hours, enrichment programs for instance value-added courses, industrial visits, mini projects, guidance and mentoring etc., are inter-weaved throughout the semester for students. 2. The institution constantly strives to upgrade the infrastructure and procure resources such as LCD projectors, wire/Wi-Fi internet access in all departments, for effective delivery of the curriculum. Teacher training on ICT usage and pedagogy, regular monitoring and feedback mechanisms ensure proper Teaching-Learning mechanism. 3. A host of additional resources for the content beyond the curriculum to expose students to contemporary technical advancements are provided. This additional content may be in the form of MOOCs, NPTEL lectures, YouTube videos, Guest Lectures etc. Curriculum Revision 1. A prominent role is played by all the HODs and senior faculty of CIET in framing the curriculum by sharing the inputs from the stakeholders with the BoS in their capacity as members of different Boards of Studies of the affiliating university. This feedback provided leads to necessary corrections in the

curriculum. 2. The University regularly updates the curriculum based upon the contemporary trends of the corresponding industries and inputs received from the affiliated colleges to be on par with other universities and to meet the requirements of the statutory bodies.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
nil	nil	Nil	0	0	0

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	B.Tech CSIT	25/04/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	All Courses	28/11/2019

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

	Certificate	Diploma Course
Number of Students	0	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
Professional Ethics Human Values	24/06/2019	285
Professional Ethics Human Values	16/12/2019	124
Soft skills	02/01/2020	109
Environmental Science	05/08/2019	499
CRT Training	16/07/2019	766
MOOCS (Life Skills) offered by ANU, the affiliating university	16/12/2019	236
Constitution of India	05/08/2019	499
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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
BTech	All UG Programmes	159
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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

Feedback obtained from various stake holders offers great help in improving the planning and delivery of Curriculum, the teaching learning process, assessment evaluation and all other aspects of the institution and contributes decidedly to its overall development. It provides a clear expectation of institute's performance by the stakeholders and gives insight into the strengths and weaknesses of the institution. Feedback is in fact the key to the institution's success. The feedback is collected periodically from all the stakeholders and is used in the following areas:

- To check whether the Vision and Mission of the Institution as well as the departments are being met.
- To take inputs while formulating and updating program curriculums.
- Improving quality of the various programs offered by the institute.
- To check attainment levels of the POs and PSOs.
- To know if the infrastructural facilities and other facilities provided by the institution like library, wifi, transport, hostel etc are adequate.
- Analysing the impact of the teaching learning methodologies used in the institution.
- To analyse the performance of faculty.

Feedback is collected from the following stakeholders:

Student feedback:

- Feedback from students on faculty is taken twice in each semester to know about the faculty performance. This is a SWOT Analysis for the faculty to assess their strengths and weaknesses and improve themselves and the teaching learning process.
- A Graduate Student Exit Survey is done for the outgoing students in which the opinion of students on various aspects of the Institute academics is covered.
- Feedback is analysed by the HoDs and appropriate corrective measures are taken where ever necessary.

Alumni feedback:

- Feedback from Alumni is collected every year to know the accomplishments/progress in their professional career after graduation. This feedback helps to find out to what extent the teaching learning process offered by the Institute helped them in shaping their professional career.
- This feedback also helps in assessing the adequacy of study and training offered by the Institute to meet industry requirements.
- This feedback also helps in modifying/updating the curriculum.

Parents' feedback: The feedback from parents is treated as a source of inspiration and encouragement for fine tuning our academic processes. This feedback helps in knowing the satisfaction level of parents on various facilities provided by the Institute.

Feedback from Staff: Feedback from teaching and nonteaching staff is also obtained to check whether the infrastructure and policies of the Institute are adequate to discharge their duties effectively and efficiently.

Feedback from employers: Feedback from employers is also obtained to check and ensure that the students graduating from our Institute are meeting the Industry requirements fully.

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
BTech	Civil Engineering	128	35	35
BTech	COMPUTER SCIENCE AND ENGINEERING	192	179	179
BTech	COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	64	64	64
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	192	172	172
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	64	30	30
BTech	MECHANICAL ENGINEERING	64	19	19
Mtech	COMPUTER SCIENCE AND ENGINEERING	18	13	13
Mtech	VLSI & EMBEDDED SYSTEMS DESIGN	18	9	9

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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	1660	44	124	6	0

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
124	124	10	25	2	6

[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)

Yes. An effective Mentor-Mentee mapping is in place. The faculty does mentoring enthusiastically and the HODs

oversee the functioning of the system. 15 to 20 mentees are assigned to each faculty and a student mentoring register is maintained for each student. Personal information of the students, month wise attendance and performance in internal and external examinations are all maintained in this register. Mentor and Mentees meet frequently and all academic, learning and personal difficulties/problems are discussed and appropriate suggestions/remedies are given. Regular Interaction with parents is maintained by Mentors. Interaction with parents takes place over telephone on such days when a student is absent or when the student faces/causes some trouble. In some cases, parents are invited to come to college also depending on the seriousness of the issue. This periodic interaction of the mentor with the mentee and parents are recorded. HODs and Principal ensure the effective implementation of the system through periodical reviews and meetings. It is noticed that the mentoring system improved the students' attendance and performance besides overcoming their personal problems.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1660	124	1:13

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
29	29	0	29	1

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. K. Kiran Kumar	Associate Professor	Uttam Acharya Puraskar Award
2019	Dr. K. Kiran Kumar	Associate Professor	Academic Leadership award
2019	Dr.B.V.V.S.Prasad	Associate Professor	Seva Puraskar Award
2019	Dr.B.V.V.S.Prasad	Associate Professor	Distinguished Professor award
2019	Dr.B.V.V.S.Prasad	Associate Professor	Outstanding contribution and praiseworthy achievement award

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	CE, CSE, ECE, EEE ME	I B.Tech, I Sem	23/01/2020	19/06/2020
BTech	CE, CSE, ECE, EEE ME	II B.Tech, I Sem	04/12/2019	15/03/2020

BTech	CE, CSE, ECE, EEE ME	III B.Tech, I Sem	06/12/2019	07/03/2020
BTech	CE, CSE, ECE, EEE ME	IV B.Tech, I Sem	04/12/2019	01/03/2020
BTech	CE, CSE, ECE, EEE ME	I B.Tech, II Sem	09/11/2020	31/12/2020
BTech	CE, CSE, ECE, EEE ME	II B.Tech, II Sem	24/10/2020	31/12/2020
BTech	CE, CSE, ECE, EEE ME	III B.Tech, II Sem	14/10/2020	31/12/2020
BTech	CE, CSE, ECE, EEE ME	IV B.Tech, II Sem	12/09/2020	11/11/2020

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

Reforms in evaluation initiated by the college are as follows: • At the commencement of the semester, wide publicity is given to the university academic calendar that includes the schedule of internal examinations. • The internal question papers are reviewed by course expert groups and at random by the HOD and are moderated if required. Exam cell monitors and ensures the smooth and proper conduct of internal examinations and the posting of internal marks within three days of the conduct of the examination. • Question wise cognitive level of the Blooms taxonomy and the mapping to which CO(s) is done are included in the question paper. • After evaluation, the faculty explains the right answer and way of answering in the class and the scripts are shown to the students for personal verification and their doubts are clarified. • The performance of the students is analyzed and slow learners/poor performers are identified and the necessary remedial action is carried out to improve.

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

CIET being the affiliated institute, it strictly adheres to the university Academic Calendar. The Academic Calendar details the following: • Date of commencement of the semester. • Schedules of instructional days and internal exams. • Dates for conduct of University practical exams. • Dates of vacation periods. • Dates of semester end examinations. Periodic monitoring regarding the proportional coverage of syllabus is done during the semester and it is ensured that the syllabus is completed uniformly over the two sessional exams. Additional classes are engaged by concerned faculty in case of any shortfall of the target.

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)

[Yes. Details available in College website under respective departments.
http://chalapathiengg.ac.in/](http://chalapathiengg.ac.in/)

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

B.Tech	BTech	Civil Engineering	53	53	100
B.Tech	BTech	Computer Science & Engineering	109	105	96.33
B.Tech	BTech	Electronics & Communication Engineering	101	94	93.07
B.Tech	BTech	Electrical & Electronics Engineering	22	22	100
B.Tech	BTech	Mechanical Engineering	26	26	100
M.Tech	Mtech	Computer Science & Engineering	1	1	100
M.Tech	Mtech	VLSI & Embedded Systems Design	8	8	100
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2.7 – Student Satisfaction Survey

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

http://chalapathiengg.ac.in/SSS_2019-20.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
Interdisciplinary Projects	5	NITTTR	14025	14025
Interdisciplinary Projects	2	AICTE	166667	166667
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
A Seminar on How to become entrepreneurs by BILL MACKEY Vice President, Hawdy Networks	Computer Science Engineering	25/07/2019
24 hours Hackthon in	Computer Science	13/09/2019

Collaboration with IBM	Engineering	
A Guest lecture on Business Intelligence by M.Venu Gopal, Technology Analyst from Infosys, Hyderabad	Computer Science Engineering	25/10/2019
A three day workshop on Oracle by Mr. P. Bala Srinivasa Raju, APITA	Computer Science Engineering	07/01/2020
A two day workshop on Ethical Hacking by Mr. Ch. Santosh, CEO of Supraja Technologies, Mr. J.Naveen Kumar, Vijayawada	Computer Science Engineering	05/02/2020
A five day FDP on Data Science using Python in Association with SWECHA	Computer Science Engineering	29/05/2020
A webinar on Career Guidance in Association with Indian Servers and Fresher's Plane	Computer Science Engineering	15/06/2020

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
Patent published	Dr. K. Kiran Kumar, Dr. B.V.V.S.Prasad, Dr. K.Lakshmi Prasad	IPR, India	18/10/2019	Multiple sockets in single plug
Patent published	Dr. K. Kiran Kumar	IPR, India	22/10/2019	Bottle with Lid
Patent published	Dr. K. Kiran Kumar	IPR, India	02/04/2020	An apparatus of Information gathering smart spectacles based on Artificial intelligence

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Caddycode India Pvt Ltd	Chalapathi Educational Society	Caddycode India Pvt Ltd	Software Jobs and Internships for students	15/07/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	2	3

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

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

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)
National	BSH	1	0
International	CE	4	0.06
International	CSE	15	3.93
International	ECE	17	3.70
International	EEE	10	3.86
International	ME	3	0.89
International	BSH	6	0

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CSE	6
ECE	1
EEE	2
BSH	7

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
IOT based real time prototype model for smart street light controller and fault detector	Dr.K.L.P rasad	International Journal of Advanced Science and Technology	2020	0	Chalapathi Institute of Engineering and Technology	0
Identify intelligent behavior in	Dr.K.L.P rasad	International Journal of Innovative	2020	0	Chalapathi Institute of Enginee	0

machines and similarity network of modeling methods		Technology and Exploring Engineering			ring and Technology	
Emulaating human biases and bound rati onality and aavances in ai/ml	Dr.B.V.V .S.Prasad	Internat ional of E ngineering and Advanced Technology	2019	0	Chalapathi Institute of Enginee ring and Technology	0
Performa nce analysis of Pegasus and s-leach	Prof. P. SubbaRao, G.Bharat Kumar, Dr. K.R.R. Mohan Rao, A.NagaRaju	Internat ional journal of multi disc iplinary education research	2020	0	Chalapathi Institute of Enginee ring and Technology	0
Algorithms used in face book	Dr. K. Kiran Kumar, K. Aruna Kumari, Sk. Johnsy edulu	Internat ional journal of multi disc iplinary education research	2020	0	Chalapathi Institute of Enginee ring and Technology	0
Quality analysis of tea with the help of machine algorithms	Dr. K. Kiran Kumar, G.Rama Chandra Rao, S. Krishna Veni	Internat ional journal of multi disc iplinary education research	2020	0	Chalapathi Institute of Enginee ring and Technology	0
Protocols of whatsapp	Dr. K. Kiran Kumar, P.S ubbaRao, S. Krishna Veni	Internat ional journal of multi disc iplinary education research	2020	0	Chalapathi Institute of Enginee ring and Technology	0
Fibonacci technique for privacy and security sensitive data on cloud envi ronment	B. Hari Krishna, T .Venkatesw aralu, M. Asha Aruna Sheela	Internat ional journal of advanced networking and applic ations	2020	0	Chalapathi Institute of Enginee ring and Technology	0

Output Voltage and Current Ripples performance Examination in Two Bus system with Boost converters fed UPQC and reduction	Mr. T. Venkatesh	International Journal of Engineering and Advanced Technology (IJEAT)	2020	0	Chalapathi Institute of Engineering and Technology	0
Performance Analysis Of 4-S, 2CC.I Engine With Roselle Oil Methyl Esters With Added Ignition Improver	DR M.CHANDRA SEKHAR	International Journal of Mechanical and Production Engineering Research and Development	2020	0	Chalapathi Institute of Engineering and Technology	0

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Safe and high secured rank keyword searchover an outsourced cloud data	Dr.K.Kiran Kumar, G.R amachandra Rao, Sk.John Sydulu, G.Bharath Kumar	IEEE Explore	2019	1	1	Chalapathi Institute of Engineering and 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	16	77	0	0
Presented papers	5	3	0	0
Resource persons	0	3	0	0

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Distribution of Fruits and Medicines to patients in IDA Hospital, Gorantla.	Techwings Association	2	18
ECO Ganesh Idols Distributed on Ganesh Chaturthi	Techwings Association	2	50
Distribution of blankets to the needy and poor people residing on pavements	Techwings Association	2	12
Distribution of books and stationery at Government elementary school.	Techwings Association	2	34
Computer literacy program for Government school children.	Techwings Association	2	15
Donated consumables to blind students	Techwings Association	2	36
Distribution of food for poor and needy affected by the COVID 19 lockdown.	Techwings Association	2	5
Feeding the poor at Orphanage home	SAMVIDH Association	2	20
Distribution of iron racks at orphanage home	SAMVIDH Association	2	20
Tree Plantation Program	NSS	1	50

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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
0	0	0	0

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Anti Plastic Antipolythene awareness programme	NSS	Organized an Awareness Program about Anti Plastic Anti Polythene in Gorantla Village, Guntur and also 500 Cotton bags are distributed to the people at end of the program.	1	200
Blood donation camps	NSS with Collaboration of Needs Blood bank	Both faculty and students have donated blood in the blood donation camps organised by Red Cross Society.	1	150
Ozone formation day	NSS	Tree plantation programme was conducted in college campus with 100 saplings	1	50
Swachh Bharath Program	NSS	Sanitation and cleanliness awareness in nearby villages. Weeding of Bushes and waste plants in Campus and surrounding areas.	5	100
Vanamahotsav	NSS	Plantation conducted in college campus.	3	50
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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
0	0	0	0

[View File](#)

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Association	Industrial Visit	Efftronics, Vijayawada	17/08/2019	17/08/2019	49
Association	Industrial Visit	Efftronics, Vijayawada	24/11/2019	24/11/2019	61

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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
SDVVL Survey Solutions	10/12/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	53
IIIT, Hyderabad	03/03/2020	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Faculty training	0
Efftronics	18/10/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	110
SIX Phrase	10/02/2020	? Guest lectures ? Technical seminars ? Internships ? Workshops ?	0

		Industrial visits ? Faculty for industrial training ? Campus recruitment	
AUTO DESK Authorized Training Centre	25/04/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	0
Sri Lakshmi Ganapathi Engineering Works	25/04/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	0
Micro Link Peripheral Controls Pvt.Ltd	31/12/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	0
MM Enterprises	31/12/2019	? Guest lectures ? Technical seminars ? Internships ? Workshops ? Industrial visits ? Faculty for industrial training ? Campus recruitment	0

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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
81.97	35.25

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with LCD facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
NewGenlib software	Fully	ILMS V3.1.2 EE Helium	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14169	4880379	1588	37640	15757	4918019
Reference Books	3284	1253033	73	12150	3357	1265183
e-Books	1346	0	60	0	1406	0
Journals	98	165985	0	2773	98	168758
e-Journals	4233	84370	0	85786	4233	170156
Digital Database	4	18000	0	0	4	18000
CD & Video	1350	0	121	0	1471	0
Library Automation	1	91140	0	12390	1	103530
Weeding (hard & soft)	2	505	1	319	3	824
Others(s pecify)	0	0	0	0	0	0
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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
0	0	0	Null
View File			

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	507	11	120	11	1	16	22	120	0
Added	0	0	0	0	0	0	0	180	0
Total	507	11	120	11	1	16	22	300	0

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

300 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
0	NIL

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
45.37	21.59	38.6	31.29

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)

AMCs are in place for different equipment of various laboratories. The institute technicians carry out the maintenance works up to a certain extent. Beyond outside technicians are called for either under AMC or otherwise. Upgradation of the computer systems is done annually to meet the changing advanced needs of computing. Maintenance of various systems is carried out as indicated below: 1. An inventory of spare components is maintained in the institute. Basing on the need, the in-house staff draw the components and maintain the Hardware and Software. 2. Beyond minor maintenance, ICT equipment is serviced by M/s Integrated Electronics Pvt.Ltd. 3. NewGenlib software is upgraded under AMC. 3. Elevator maintenance is done through AMC by M/s Sunrise Systems. 4. Water treatment plant is maintained through AMC with M/s Kavya Sree Agencies 5. UPS are maintained through AMC with M/s Karthikeya Power Solutions 6. CCTV and Bio-metric Systems are maintained by M/s Integrated Electronics 7. Electrical Systems are maintained by In-house electrical staff 8. Water supply systems are maintained by In-house plumbers 9. Sports facilities are maintained by In-house staff under the supervision of the Physical Director 10. The HODs need to ensure the operational condition of all the laboratory equipment. At the beginning of the academic year the HODs would budget for repairs and maintenance of all the laboratory equipment for the ensuing academic year. They identify the agencies that would undertake the maintenance work and would get the equipment ready for operations before the beginning of every semester. Institute makes budgetary provision under different heads for maintaining and utilizing the campus infrastructure facilities.

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	Functions, Celebrations and Scholarship for the Needy	195	812200
Financial Support from Other Sources			
a) National	Post Metric Scholarship by Govt. of AP	1114	54532000
b) International	0	0	0
View File			

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Classes	08/08/2020	214	CIET
Language Lab	05/08/2019	499	CIET
Mentoring	24/06/2019	1660	CIET
Soft skills	02/01/2020	109	APITA, Six phrase
Bridge Courses	07/08/2019	499	Faculty and experts from outside
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Opportunities for Engineering graduates.	0	200	0	0
2019	Awareness session on career building	0	170	0	0
2020	Career guidance	220	0	16	0

	session on IELTS & GRE				
2020	Six Phrase Training	0	307	0	149
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
13	13	7

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
13 Companies visited	300	103	12 Companies visited	100	46
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.Tech	CSE	Texas Tech University	M.S
2020	1	B.Tech	CSE	University of South Alabama	M.S
2020	1	B.Tech	CSE	California Lutheran University	M.S
2020	2	B.Tech	CSE	University of New Haven	M.S
2020	1	B.Tech	CSE	AU College of Engineering	M.Tech
2020	3	B.Tech	ECE	University of Hertfordshire	M.S
2020	2	B.Tech	ECE	University of Leicester	M.S
2020	2	B.Tech	ECE	Sapienza University, ROME	M.S
2020	1	B.Tech	ECE	University	M.S

				of Huddersfield	
2020	1	B.Tech	EEE	SAPIENZA UNIVERSITA DI ROMA	M.S
View File					

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

Items	Number of students selected/ qualifying
GRE	13
TOFEL	3
Any Other	6
View File	

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

Activity	Level	Number of Participants
International Yoga Day	Intra-College	90
Novum	Intra-College	3100
Women's Day	Intra-College	220
Republic Day	Intra-College	295
Success Meet on the Conferment of Autonomous Status	Intra-College	650
Teacher's Day	Intra-College	1710
Independence Day	Intra-College	320
Orientation Program	Intra-College	496
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Chess	National	1	Nil	Y17CS1312	B.Nandini Lakshmi
2020	Caroms	National	2	Nil	Y19CS1358 Y19EC1312	T.Gopi Chand, P. Pavan Kumar
2020	Chess	National	1	Nil	L18EE1251	G PRAKASH RAO
2020	Chess	National	1	Nil	L18EE1251	G PRAKASH RAO

2020	Chess	National	1	Nil	L18EE1251	G PRAKASH RAO
2020	Tennikoit	National	2	Nil	L17EE1218	P. Sireesha & R. Kalyani
2020	Throw ball	National	10	Nil	Y17EC1213	V.CHARMINA and Team
2020	Throw ball	National	10	Nil	Y17EC1213	V.CHARMINA and Team
2020	Tennikoit	National	2	Nil	Y18CS1224 Y17CS1252	G.Sowmya, J. Joharika
2020	Dance	National	Nil	1	Y18CS1232	G.Madhuri

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

Each department has their own student clubs and they conduct various activities that are much useful and relevant to their field of study. With the help of faculty, these student clubs arranged guest lectures, industry visits and various social activities. The students are given opportunities and role to play in the academic and extracurricular activities by involving them in all the Statutory and Non-Statutory bodies of the institute. Students are members of various committees like Grievance Redressal Committee, Hostel Committee, Transport Committee, Anti-Ragging Committee, IQAC, and Women's Welfare Committees etc., and actively participate in the Institute programs and activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institution has an active registered Alumni association by name "Chalapathi Institute of Engineering Technology Alumni Association (CIETAA)", which was registered with s.no 164/2016 on 12/05/2016 by the Registrar of Societies, Guntur. The alumni association is active in promoting interactions and camaraderie among the alumni, staff and the management. Besides helping the current students in all possible ways, it also lends its support to the college to achieve its cherished goals, vision and mission. The management extends full support for all the activities conducted by the alumni association. Our top alumni are placed in many prestigious organizations, and most of them are discharging their responsibilities in different positions like Software Engineers, System Engineers, Tech Support Engineers and Software Testers etc. The Alumni meetings are conducted every year to assist the present students for creating awareness about various employment opportunities that are available in this cut throat competitive world and the strategic methods to be followed to meet the necessities of competitive examinations like GRE, TOEFL and other job-oriented examinations in the public sector. It motivates students to get jobs in prestigious organizations in the private as well as public sector. In addition, it also encourages students to opt for higher education in India and

abroad. (i). Students who have completed their B.Tech/M.Tech course register themselves in the alumni association. (ii) The members meet at least once in a year and discuss all the issues pertaining to the development of the institution both academically and otherwise. (iii) The alumni participation basically is in areas of identifying the gaps between the levels of learning within the campus and the levels of learning expected by the industry. (iv) The institution arranges lectures by alumni in different departments so that the students can be motivated to prepare themselves for careers in an environment of global competition.

5.4.2 – No. of enrolled Alumni:

91

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

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)

Decentralization and Participative management: Institution has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. A decentralized and transparent mechanism is in place in all the institutional affairs. This mechanism ensures the delegation of appropriate responsibilities to all the levels of the management and allows the top management to focus on policy making and major decisions. i. Governing Body: It is the highest decision-making body which articulates rules and regulations of governance, delegates powers and responsibilities to various Committees, Principal, Heads of the Departments (HoDs). The constitution of statutory bodies like Governing body, Academic Council, Finance Committee is systematically carried out with specified functions and responsibilities as per the requirements of the regulatory/statutory bodies. These bodies play a major role in taking policy decisions about governance, academics, finance, research and teaching learning process. The existing committees work hand in hand with all stake holders in identifying possibilities, planning, organizing, implementing and monitoring all the activities of the institution. The Institute believes that the development of the Institute and achievement of quality depend on contribution of the employees and students of the Institute. ii. The decentralized mechanism exists even at the departmental level. Every department has Program coordinators at UG and PG level to look after the activities of each program. Decisions at department levels are taken by well-structured committees like Course expert group, Department Advisory board, Department assessment committee, Project review committee, etc. HODs are invited for the Governing body meeting. The attendees of this meeting brainstorm to arrive at a road map for the development of the institution and the departments. All Stakeholders of the institution have participative roles in various decision-making committees. The involvement of management and all the stakeholders including Head of the Departments, Faculty, Students, Alumni, Employers, Industry experts, Educationalist, Scientist, Community representatives is significantly observed in various functional committees of the institution. This ensures the decentralization of administration through committees and has participative management. A democratic approach prevails in the decision-making process, by

which all the stakeholders of the institution could participate in the managerial decisions.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	<p>? AP State Government does the admissions as per merit and following all the statutory reservations basing on the ranks of the common entrance test conducted by the Govt. ? 70 of the seats are filled through counselling and 30 of the seats are filled by management based on the merit of the students. ? Financial help is extended to prospective students by providing scholarships for deserving poor and merit students.</p>
Industry Interaction / Collaboration	<p>? MoUs are entered with various industries by all departments. Students are sent for industry visits to these industries for practical exposure and hands on experience. The services of the industry experts are best utilized for different continuing educational activities conducted in campus for students and faculty. ? Industry personnel are part of all the departments' advisory boards and they actively participate in the deliberations of the board meetings. ? Students undertake their internship in different industries and are exposed to multiple technologies, tools and the working environments which make them industry ready. ? Alumni working in industry visit the institute to interact with the students about the varying needs and trends of recruitment in industry and in some cases, they impart the training.</p>
Human Resource Management	<p>? Before commencement of academic year, faculty and staff requirements are assessed. The vacancies are advertised in leading dailies besides placing in college website and other social networks. Duly constituted selection committees recruit the faculty and staff. ? The requirement of faculty and staff is assessed based on the workload as per the AICTE norms. ? Ph.D holders requirement mandated for each program are met with. ? Regular</p>

updating of knowledge of teaching and nonteaching staff is encouraged. ? Annual performance appraisal is done with a defined format. ? Faculty are encouraged to attend the FDPs conducted by the national institutes and Universities that are relevant to their area of specialization/research by reimbursing the registration fees. ? Faculty and staff actively involve and participate in organizing different Seminars and Conferences. ? IQAC creates awareness among faculty regarding quality and teaching learning process. ? Grievance cell is present to address issues of both staff and students.

Library, ICT and Physical Infrastructure / Instrumentation

? Library collection is maintained and the same is augmented on an annual basis as per the AICTE stipulations. ? DELNET, NDL, JGATE subscriptions are made and are well utilized. ? Substantial number of ICT resources such as e-Journals, e-Books, NPTEL resources, Digital data base, CDs and Videos are available in the library. ? Digital library having twenty-four computer systems with adequate bandwidth is functioning and is well utilized. ? NEWGENLIB software is used for library issues and returns and OPAC is in place. ? LCD Projectors are installed in all classrooms and are used by faculty to exploit ICT resources. Computers and equipment are replaced after optimum utilization. ? Built-up area is made available for meeting the growing needs.

Research and Development

? The institute has established Research and Development Cell and all the activities pertaining to RD are monitored by it. ? Few faculty members have submitted proposals to funding agencies like AICTE, UGC, DST etc. for funding to carry out RD activities. ? The institute encourages the faculty members to publish research papers in indexed journals. ? Faculty across the branches are pursuing Ph.D in different universities and national institutions. ? Eligible doctorates of the campus are guiding students for their Ph.D under different Universities. ? The institute conducts webinars, seminars, conferences, STTPs, FDPs and workshops and also encourages faculty to attend such events outside the institute.

<p>Examination and Evaluation</p>	<p>? Formative assessment is done in the form of Continuous Internal Examinations which are held in the form of two Mid - Semester exams, two Assignment tests and one practical exam for each subject in each semester for B.Tech/M.Tech Courses. ? This performance is analysed and the poor performers/slow learners are identified ? Remedial classes are held for these identified slow learners which resulted in better performance of these students. ? Tutorial classes are conducted to help the students to get better problem-solving skills. ? Mini project work is carried out by the students and is continuously reviewed. ? Major project work is done by the project groups formed and both summative and formative assessment is done. ? Internship in some industry is made mandatory and the evaluation is done by that industry personnel. ? MOOC courses are part of the curriculum. Students pursue NPTEL, COURSERA, ANU MOOCs and the evaluation is done by the respective certifying body. ? Summative assessment is done in the form of Semester End Examinations.</p>
<p>Teaching and Learning</p>	<p>All the faculty are encouraged to participate in different continuing education activities including some on pedagogical methods organised by reputed institutions and pursue NPTEL, Coursera etc., courses so that they will be up to date with the contemporary trends of the industry. Immense benefit could be seen for the students with the conduct of workshops, seminars, guest lectures, and industrial visits by departments' associations. Coverage of content beyond the curriculum by the faculty leads to an exposure to the latest tools and technologies. Regular usage of ICT in class rooms is enormously contributing to the enrichment of Teaching-Learning process.</p>
<p>Curriculum Development</p>	<p>The institute is conferred with UGC Autonomous status from 2020-21 academic year. As such the curriculum set up by the Affiliating University is followed for 2019-20 also. At least one staff member from each department is a member in the respective Board of Studies of the affiliating university. All these members are actively involved in the</p>

deliberations of meetings with all stakeholders and collect the valuable suggestions which are taken to the notice of respective BOS which in turn are taken into account while finalising the syllabus. Both professional core electives offered by the department and open electives from the cross domains are part of the curriculum.

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

E-governance area	Details
<p>Planning and Development</p>	<p>Soft copies of the yearly budget requirements for addition of new equipment, maintenance, other recurring expenditure and for any new lab setup are called from all the departments, Library, Sports and Examination cell. The Library committee prepares and plans the library budget with the help of individual departments. These requirements are consolidated using Tally, reviewed and are revised if required. Institute prepares annual budget using Tally for the receipts and expenditure and the funds are utilised most prudently. Tally/Excel are also used in preparing the student data, pay roll. Student fee receipt system and student attendance management system are in place to facilitate office accounting system, student fee collection and sending messages of attendance reports to the parents.</p>
<p>Administration</p>	<p>A module is being built which provides support for day-to-day Institute Administration, faculty induction, leave management, service record maintenance, staff welfare measures etc. The governing body advises the senior administration on all administrative and financial matters. Principal periodically holds meetings with the Heads of departments and takes decisions related to all academic and administrative matters which are in alignment with the policies of the statutory bodies. HODs coordinate internal activities of their respective departments. HODs disseminate the information through faculty meetings/email/ SMS to the stake holders like staff, students and parents. Many of the activities like students' admissions data, students' fee payments, library functions etc. are digitised.</p>

<p>Finance and Accounts</p>	<p>Tally is extensively used for administrative work (Fee collection, Payment of salaries and Student Records). All payments are done either through online transfer or by cheque but for petty cash. Cash book is maintained on a daily basis, payments are done with vouchers. Acquittance register is maintained. These are all verified and certified by the external auditing agency. Budget proposals received from the departments are reviewed, and consolidated and forwarded to the Governing Body for approval and necessary financial sanction. Once approved by the governing body principal will communicate to the HODs about their department sanction. At the end of the financial year, departments submit the utilization.</p>
<p>Student Admission and Support</p>	<p>The admission enquiries, details of admitted students, scholarships given and other related student data, monitoring of the attendance and progress, sending reports to the parents, the feedback collection etc., are all digitized. Digital library is established and NewGenlib software is used for issues and returns in the library. Students facing unforeseen financial and other challenges are extended financial support. Online feedback system is in place to foster transparency. In their feedback students share ideas/suggestions for improvement of academic and administration functions. A structured student grievance committee is in place, which includes student members, resolves all the issues and grievances of the students. Different committees wherein students are members take up issues like transport, hostel, sports, cultural activities, canteen etc.</p>
<p>Examination</p>	<p>BEES Software is being deployed for the conduct of examinations from the coming academic year as the institution has become Autonomous. This addresses the pre-examination phase, conduct of examination and post-examination phase. All precautions are taken to conduct examinations in a fair and transparent manner. Internal answer sheets are shown to students for their verification. Internal theory and practical examination marks are posted,</p>

consolidated and sent to the university in digital form. University sends the question paper for the theory examinations as a secured softcopy. Half an hour before the examination, unique code is received from the university the question paper is then printed and the exam is conducted. University also has a scheme of recounting/ revaluation of results for students on payment of a nominal fee.

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
2019	Mr. K.Rajesh	Wireless network using NS-3	-	500
2019	Mr. B.Hari Krishna	Cloud Computing	Certified in NPTEL Exam	300
2019	Mr.P.Venkata Siva	Machine Learning and artificial intelligence	E ICT NIT Warangal Workshop	1250
2019	Mr. SK.John Sydulu	PYTHON for Data Science	Certified in NPTEL Exam	550
2019	Dr. B.V.V.S.Prasad	PYTHON for Data Science	Certified in NPTEL Exam	550
2019	Dr.K.Lakshmi Prasad	PYTHON for Data Science	Certified in NPTEL Exam	550
2019	Dr. K.Kiran Kumar	Accreditation and outcome-based learning	Certified in NPTEL Exam	550
2019	Mr.N.Jaga Jeevan	Data Base Management System	Certified in NPTEL Exam	500
2019	Dr. B.V.V.S.Prasad	Data Base Management System	Certified in NPTEL Exam	500
2019	Dr. K.Kiran Kumar	ICT in Teaching and Learning, Accreditation for under graduate engineering programmes	Certified in NPTEL Exam	1100

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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)
2019	Two day FDP on outcome based education	Nil	08/07/2019	09/07/2019	40	Nil
2019	One week STTP lecture on ICT based problem based learning by NITTRK, Kolkata	Nil	02/12/2019	06/12/2019	36	Nil
2020	FDP on Cyber Security	Nil	12/05/2020	12/05/2020	411	Nil
2020	5 day FDP on Data Science using Python	Nil	29/05/2020	02/06/2020	121	Nil
2020	Online webinar on Micro Engineering	Nil	05/06/2020	05/06/2020	393	Nil
2020	Online webinar on heat transfer enhancement techniques for metal hybrid based hydrogen storage system	Nil	24/06/2020	24/06/2020	457	Nil
2020	Online webinar on Copyrolysis agro biomass and	Nil	26/06/2020	26/06/2020	208	Nil

	plastic waste for bio fuel generation					
2020	Problem Solving With Python	Nil	16/03/2020	18/03/2020	49	Nil
2020	VLSI design using open source EDA tools	Nil	26/06/2020	30/06/2020	48	Nil
2020	Embedded Systems Fundamentals	Nil	24/02/2020	29/02/2020	103	Nil
View File						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Advanced Materials Research	1	15/06/2020	19/06/2020	5
One week national level online FDP	1	11/05/2020	16/05/2020	6
Applications of thermal engineering	1	08/06/2020	12/06/2020	5
Cutting edge technology and communication Engineering	1	14/05/2020	15/05/2020	2
Universal Human Values and Professional Ethics	2	13/05/2020	17/05/2020	5
Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology For E- Vehicles	1	01/06/2020	05/06/2020	5
Mathematical Modelling in Mu	1	01/01/2020	07/01/2020	7

Interdisciplinary Domain				
PHP and SQL	1	18/05/2020	23/05/2020	6
Innovations of academicians	1	15/05/2020	16/05/2020	2
Math mania	1	08/06/2020	12/06/2020	5
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
29	29	28	28

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance, Provident Fund as per the PF norms	Group Insurance, Provident Fund	Group Insurance, Annual Poor and Merit Scholarships, CRT Training

6.4 – Financial Management and Resource Mobilization

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

A major portion of the revenue is in the form of reimbursement by the state government. Management pumps in the required funds whenever the reimbursement is delayed. The institute conducts both internal and external audits of the financial transactions every year. Internal audits are conducted twice a year. College has full time Accountants to maintain annual Income and expenditure statements and balance sheet both at the levels of the institution and the parent society. External audit is conducted once a year by the external agency M/s C.M.Rao Co, chartered accountants. The agency does thorough scrutiny of the cashbook, details of receipts from Government and Students, payment vouchers and bank deposits available. The agency also verifies credit bills, salary statements, bank statements and TDS details. Upon completion, the agency submits its reports and issues a certificate which is found to be satisfactory.

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/ Grants received in Rs.	Purpose
Chalapathi Educational Society	2288112	Maintenance of institute infrastructure
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6.4.3 – Total corpus fund generated

0

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	Committee	Yes	IQAC

		with an Internal and an External faculty		
Administrative	Yes	M/s C.M.Rao Co, CA	Yes	Chalapathi Educational Society

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

1. Parents are invited to meet the course instructors in order to know their ward's performance and progress. 2. Parents also meet the mentors/HODs to know the all-round performance of their ward. 3. Every year a meeting between Parents and Teachers is held which facilitates discussion of student progress like academic progress and performance in examinations, etc. 4. Further, the Parent -Teacher meeting conducted annually paves way for suggestions for the upkeep of the institute and to improve the performance of student. 5. Whenever disciplinary action is warranted, the concerned parent is involved in the process.

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

1. Supporting staff are trained on the usage and maintenance of new equipment at the time of installation. 2. Academic / study leaves are granted to pursue higher education. 3. Deputed for training on latest tools and technologies held in other institutions. 4. They are encouraged for pursuing higher studies and are sponsored for training programs outside the institution and are appropriately promoted upon acquiring additional qualification.

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

1. Continuous assessments of COs, and then POs and PSOs based on the formative and summative assessments and the indirect feedback collected. 2. Adding new courses - college has started new B.Tech program in Computer Science and Information Technology (CSIT) after approval by AICTE and Affiliated University, ANU. 3. Curriculum is being updated basing on AICTE model curriculum. 4. Recruitment of faculty with higher qualification like Ph.D from reputed institutions.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	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
2019	Workshop on "ALL HANDS TOGETHER" (Faculty Orientation Program)	09/12/2019	09/12/2019	13/12/2019	67

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	and disadvantages	contribute to local community					
2019	Nil	3	17/08/2019	1	Awareness programme on Child abuse, child marriages, malnutrition.	The department clubs conduct awareness programs in the neighbouring villages on malnutrition, child labour laws and marriage age for boys and girls	36
2019	Nil	Nil	07/09/2019	1	Awareness about water pollution.	In association with the department clubs, awareness is created about the types of pollutants, their avoidance, purification of water are explained.	54
2019	Nil	Nil	16/09/2019	1	Mega Plantation	In association with NSS wing, tree plantation is undertaken in the campus as well as in the nearby Lam village.	72
2019	Nil	1	23/12/2019	1	Blankets distributed	TechWings, Student	12

					ion	club of CSE depar tment dis tributed hundred blankets to the roadside poor and needy in winter.	
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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	10/07/2019	Hand books on code of conduct of students are distributed to students and widely publicized. Students are expected to maintain the highest standards of discipline and dignified manner of behaviour inside as well as outside the College campus. If any student violates the rules and regulations of the College, he/she is warned and counselled if necessary.
Code of conduct for Staff	06/07/2019	Induction training program is conducted to the newly recruited staff guiding them in discharging their obligations towards students, parents, colleagues and community, and making them aware of the ethical principles governing the teaching profession. Feedback from students and authorities is taken to monitor the behaviour and performance of the staff. If any staff member is found misbehaving, disciplinary action will be taken against him/her.
Service, Conduct and Leave rules of CIET	06/07/2019	These rules are reviewed and updated periodically.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Eco-Friendly Ganesh Idols Distribution at Lakshmipuram, Guntur	31/08/2020	31/08/2020	50
Ozone Formation Day	16/09/2019	16/09/2019	50
Taking national unity integrity pledge.	31/10/2019	31/10/2019	1550
Blood Donation Camp	06/12/2019	06/12/2019	150
Smart Resource Utilization Importance of Menstrual Hygiene Management (MHM)	25/01/2020	25/01/2020	12
Anti-Plastic awareness program at Gorantla, Guntur.	22/02/2020	22/02/2020	200
Swachh Bharath Program	28/02/2020	28/02/2020	50
Traffic Awareness Programme	29/02/2020	29/02/2020	50
Distribution of cloth face masks and sanitizers to the public during COVID 19	26/03/2020	26/03/2020	300
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The institute have the following eco-friendly measures: ? Use of solar energy ? Rainwater Harvesting through percolation pits ? Fire safety measures ? Distribution of clay Ganesha idols for Ganapathi puja to the staff and students. ? Maintaining maximum feasible green cover by planting of ornamental plants in the campus. ? Installation of waste disposal cans throughout the campus. ? Display of posters on environmental issues. ? Signboards on COVID 19 precautions for prevention.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The “best practices” relevant within the institutional context and pertaining to either academic or administrative or organizational aspects of institutional functioning are as given below: Best Practice 1: Student Support services- i. Full time experts are recruited to impart training on soft and hard skills and to provide career guidance to the students through the training and placement cell of the Institute. ii. To ensure better performance of students in the placement, higher studies and entrepreneurial activities the training activities are initiated from second year onwards. iii. Counselling sort of

sessions by psychologists are arranged for students enabling them to handle stress management, emotional problems and to boost their confidence levels. iv. Special company focused training sessions are arranged to prepare the students to better perform in the recruitment drives of firms like TCS, Infosys, Wipro, etc., v. Internal faculty give special coaching for those aspirants preparing for GATE examination. vi. Students are encouraged to appear for certificate courses such as NPTEL, COURSERA etc., for improving their technical competence and enriching their bio data and also to appear for engineering services. Best Practice 2: Faculty Development Programs: i. Faculty are encouraged to attend FDPs even during the Covid lockdown period, to participate in as many online courses as possible which are relevant to their field of study and research. This helped all the faculty to improve their knowledge and teaching skills manifold. ii. Faculty were persuaded to register and participate Coursera, NPTEL, Udemy etc courses. Best Practice 3: Green initiatives: In our endeavour to inculcate a sense of their duties and obligations towards society, nature and world at large, the students are made a part of the following awareness programs and conservation activities: i. Solar energy: The College has installed 100 KVA rooftop solar panels and linked them with the existing Andhra Pradesh State Electricity grid system and this resulted in 46 saving in conventional energy and the same was demonstrated to students. ii. Rainwater harvesting: This initiative ensures that the rainwater collected on the sprawling campus is percolated through the soil so that the deep-water aquifer/ underground water reserve gets replenished. To start with, four rain water collecting pits have been constructed in the campus. iii. E-waste management: Repairing and recycling of laptops, computer hardware, projectors is encouraged and executed frequently.

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

http://chalapathiengg.ac.in/IOAC/Best_Practice_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

Details of the performance of the institution in one area distinctive to its vision, priority and thrust • The vision - To emerge as an Institute of Excellence for Engineering and Technology and provide quality education, entrepreneurial and research opportunities to the students in catering the needs of society - being the driving force of the institute, it strives its best in building the citizens of tomorrow. In these efforts, it endeavours to be a student centric institute imbibing experiential, innovative and lifelong learning skills with academic rigor in producing graduates who are knowledgeable, innovative and empathetic and to inculcate entrepreneurial attitude and values amongst Learners. • Offers "financial assistance" to help the poor and needy students in pursuing graduation. They, in turn, with their own experience, are requested to help the poor, when they settle in life. • The institute, through NSS unit, organizes various activities for the benefit of the society and there by inculcating the service motto in the students. • Multiple social outreach activities are carried out in the neighbourhood addressing the local needs of the society in the close by villages. Awareness programs on cleanliness, sanitation, technology exploitation in meeting their needs and in overcoming social evils are conducted. • Social responsibility activities like Blood donation camps, Tree plantations are regularly conducted by NSS wing and departmental clubs. The needy and poor people are assisted through blanket distribution, book distribution and computer literacy programs. • The institute is helping the state government by providing infrastructure and facilities to conduct their training activities in the campus and to conduct

recruitment exams different entrance tests. • The institute is a part of the state govt mission of "Skilled Andhra Pradesh", and is providing space and infrastructure for the skill centre sanctioned by APSSDC (Andhra Pradesh State Skill Development Centre) and thus contributing to the socio-economic development and welfare of the society. • New labs in some departments are established and modern equipment is added in the other laboratories. In the process the obsolescence is removed. • All faculty are encouraged to appear for the eligibility test for admission into research. They are motivated to pursue research activities by liberal sanctioning of study leave and extending financial support. Students are also provided with the financial and material benefits to undertake innovative projects. • All National/International functions like Independence Day, Republic Day, Teachers' Day, Engineers Day and International Womens Day etc are conducted to inspire and motivate the students and to instil nationalism. • Ethical and Moral values are imparted to the students by making "Professional Ethics and Human Values" a compulsory subject in the syllabus. In addition, psychologists/doctors/entrepreneurs visit the college and address the students for their life skills and guide them in their studies and for career planning.

Provide the weblink of the institution

http://chalapathiengg.ac.in/IOAC/Performance_of_the_Institution_2019-20.pdf

8.Future Plans of Actions for Next Academic Year

The following are the future plans for the year 2020-21. 1. B.Tech Courses in emerging areas: Institute is planning to start B.Tech programs CSE-DS, CSE-AI, CSE-AIML, CSBS as per the policy of AICTE. 2. Planning to increase the MOUs with esteemed and premier institutions (both Industrial and Educational) to improvise the collaborative activities. 3. Focus on faculty Ph.D registrations and increasing the quantity and quality of research publications. 4. Giving impetus to innovation and entrepreneurial activities. 5. To enhance the use of green energies by augmenting the in-house solar power generation by adding additional panels. 6. Concerted efforts to get more research funding from different government and nongovernment funding agencies. 7. Enriching the curriculum to accommodate Industry 4.0 technologies to catch up the pace of changing technical and societal needs. 8. Improvising the NAAC Accreditation score. 9. To apply for continuation of NBA status for CE, CSE, ECE, and EEE departments. 10. Facilitating and encouraging students to participate in National/ International/ Industry driven competitions.