INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 1)
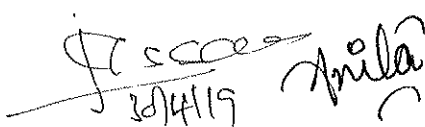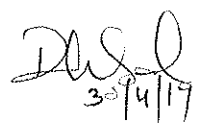
PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
ACHARYA INSTITUTE OF TECHNOLOGY

Bengaluru
560107

(Draft)

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA

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Section I:GENERAL INFORMATION

1.Name & Address of the institution:	ACHARYA INSTITUTE OF TECHNOLOGY Bengaluru Karnataka 560107
2.Year of Establishment	2000
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	3
Departments/Centres:	17
Programmes/Course offered:	34
Permanent Faculty Members:	280
Permanent Support Staff:	131
Students:	4776
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Integrated campus 2. Clean and green campus 3. Very good automated library
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 29-04-2019 Visit Date To : 30-04-2019
6.Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. KHAJA ALTHAF HUSSAIN	Vice Chancellor,MAHATMA GANDHI UNIVERSITY NALGONDA
Member Co-ordinator:	DR. RANJAN BAL	FormerProfessor,UTKAL UNIVERSITY
Member:	DR. ANITA SINGHROVA	Dean,DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE AND TECHNOLOGY MURTHAL
NAAC Co - ordinator:	Vishnu Mahesh K R	

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Observations (Strengths and/or Weaknesses) on each qualitative metrices of the key Indicator under the respective criterion(This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QIM	The institution ensures effective curriculum delivery through a well planned and documented process
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum
1.4	Feedback System

Qualitative analysis of Criterion 1

Acharya Institute of Technology, which is affiliated to Visvesvaraya Technological University, follows the curriculum designed by the University. A few faculty members of the institute are also involved in designing of the curriculum in the capacity of Member, Board of Studies. Based on the academic calendar published by the University, institute prepares day wise calendar for the whole academic year consisting of two semesters. Teaching learning process is monitored through course file, course material, attendance, internal assessment and academic audit. IQAC steering committee periodically reviews the findings in Academic audit. The lesson plans and course material prepared by all the faculty members for both theory and laboratory courses are monitored by TLP/Academic audit. Academic Council of the Institute meets periodically to discuss the academic programmes. Departmental Advisory Board recommends the necessary steps to be taken for the delivery and improvement of academic growth. Advisory Board is formed in all the departments with HOD as the Chairman, wherein experts from industry and academia along with a few senior faculties from the department are the members. The Board meets once in a semester and discusses the delivery of academic programs. Each department has the Departmental Academic Committee (DAC) for the effective monitoring of the academic process like review the lesson plans, course materials and also the internal assessment question papers, schemes and evaluation. The Course learning committee is a two stage process. The head of the department leads the committee and supported by two or three Module Coordinators. The course coordinators and students are the members. The committee discusses and deliberates the issues with respect to the particular course, schemes, assessment methods and other curriculum delivery methods. The suggestions of the course learning committee are placed before the DAC for further action.

The institute takes measures that help in creating social awareness on issues relevant to gender, environment and sustainability, human values and professional ethics. The students from the entire institute participate in events such as poster presentation based on women empowerment, debate competitions on youth and women safety, guest lectures on women security and pride of women. An interactive workshop on conscious leadership and constitutional rights and entitlements of women was also conducted. In the first year, the students are made to understand the importance of environment, ecological balance, sustainability and applicable laws & rules. The institute has Nature Watch, i-Care and Eco-club in which the students actively take part. Also the Institute boasts of a 4.5 acre artificial man-made lake with rain water harvesting system. All the students of engineering study Constitution of India, Professional Ethics and Human rights in the first year

where they learn about human values, ethics and their responsibility towards the society. A NCC COY is available in the campus where students also undergo a three-week induction program in the beginning of first year to make them to understand the importance of human values. On the campus there are students from 28 states in India and forty countries in the world.

	Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QIM) in Criterion2)
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QIM	The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners
2.3	Teaching- Learning Process
2.3.1 QIM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
2.3.4 QIM	Innovation and creativity in teaching-learning
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QIM	Reforms in Continuous Internal Evaluation(CIE) system at the institutional level
2.5.2 QIM	Mechanism of internal assessment is transparent and robust in terms of frequency and variety
2.5.3 QIM	Mechanism to deal with examination related grievances is transparent, time-bound and efficient
2.5.4 QIM	The institution adheres to the academic calendar for the conduct of CIE
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students
2.6.2 QIM	Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2
Fast Learners and Slow Learners in the department are identified based on their previous performance and results, performance in the current semester, feedback from subject teachers and continuous monitoring from the proctors. The fast learners are encouraged to do innovative projects and research activities and also take up online courses in their respective subjects. Result Analysis Team of the department prepares the slow learner student list with the help of mentors and Course Coordinators and also builds the performance graph of the individual student. Counselling is done for such students along with additional tests, customized assignments and additional laboratory classes. The Institute provides ample opportunities and scope for interactive learning, collaborative learning and independent learning. The lesson plans, course material, laboratory manuals and study materials are made available to the students. Accesses to on-line journals, learning e-resources are made available to the students and faculty members on campus through LAN and remote access. The institute is enabled by its academic alliances with many leading organizations and MOUs with universities. Institute sponsors students to participate at national/international exhibitions and present projects. Experts from Industries and R &D organizations are invited to share their expertise and student interaction. Wi-Fi is available in academic areas. Institute has English language laboratory. Library facilities are extended beyond working hours on all days. Pre-placement training is offered in domain and soft skills for all students to make them industry ready.

ICT usage have helped substantially the students towards participatory learning and acquainting themselves with new innovative teaching learning process. Faculty members make use of models, graphs, power point |

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presentation to present the content in the syllabus. Students are encouraged to prepare technical posters and work on mini projects. On-site learning for students is practiced by the faculty.

The record of individual students is maintained for every subject in a form of booklet, which consists of all the internal assessments, quiz and assignment.

Appointment of inter and intra departmental squads to supervise the conducting of Internal assessment. The results are displayed on the notice boards of the department. The internal assessment answer booklets are shown to students. All the grievances related to internal and VTU examinations are addressed in a transparent, time bound and efficient manner. If a student has any grievances he/she can approach the head of the examination committee seeking for redressal. The institute strictly adheres to the academic calendar, which is in compliance with the University calendar.

Program Outcomes (POs) Program Specific Outcomes (PSOs) and Course Outcomes (COs)are displayed in the Notice Boards and display boards in all the departments and also in the website.

The course instructor records the marks of each student and calculates the course outcomes attainment of the subject. At the end of the semester the course instructor calculates the CO attainment of the course considering all the 3 internals. Attainment Level are calculated in terms of level 1 to level 3.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QIM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Innovation Ecosystem
3.2.1 QIM	Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QIM	Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years
3.5	Collaboration

Qualitative analysis of Criterion 3
The institute has set up an incubation facility to provide opportunities for young entrepreneurs to incubate their ideas and to provide required ecosystem for incubating the products/innovations. This facility is provided free of cost to the students of AIT. At present a few of students have set up companies to incubate their ideas where space, IT infrastructure, Internet, Data Center, Board Rooms, Support Services, furniture etc., have been provided. AIT – TBI is partnering with Entrepreneurship Development Institute. Intellectual Property Rights Cell has been set up in association with Karnataka State Council for Science and Technology, Bangalore (KSCST) and Visvesvaraya Trade Promotion Centre (VTPC) (Govt of Karnataka Centre for Export Promotion) Department of Industries & Commerce, Bangalore. IPR Cell organizes awareness Programs for students and faculty, identifying research projects/thrust areas of research and also provide support for filing patent and other IPR related activities and assisting in filing applications for IPR protection. The institution has MOUs with industries and research institutes to provide an opportunity for students to incubate their ideas into reality. To promote research culture and to conduct research in frontier areas of technology, eleven research centres affiliated to VTU are set up. These research centres offer MSc (Engineering) and Ph.D programs. The institution promotes institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students. The institute is having Guinness book of world record for donating maximum units of blood in a day and diabetic awareness program. The awareness programs or rallies on/off the campus like Swatch Bharat, and health awareness rally etc., are organized. It regularly celebrates days of National importance like Science day, Sadbhavana day, health awareness, computer literacy in rural areas, women health and hygiene, water conservation, shramadana etc.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QIM	The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.
4.1.2 QIM	The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.2.2 QIM	Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment
4.3	IT Infrastructure
4.3.1 QIM	Institution frequently updates its IT facilities including Wi-Fi
4.4	Maintenance of Campus Infrastructure
4.4.2 QIM	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Qualitative analysis of Criterion 4

The institution has a sprawling clean and green Wi-Fi enabled campus. The departments have independent building or floor based on student intake. They have sufficient well equipped class rooms and Laboratories. Each department has Computer laboratories, seminar hall with projector and departmental libraries, with sufficient free space for movement in Corridor and campus.   Further, the institute has fully automated central library in independent building. The video lessons and instructional/learning material specially from NPTEL, VTU, Swayam, MIT and other lead organizations can be accessed in the virtual learning resource lab in the Central Library. The library automation is done with RFID, OPAC and COHA software. Library website provides links for better learning. The institution is having e-library for accessing the online journals. All the e-resources are accessible 24x7 on campus and off campus. The Institution has also subscribed for e-learning resources, e-learning courseware.

For English language proficiency teaching, training, testing and skills development, facilities for self-learning/independent learning are available in library building. Infrastructural facility for incubation cell is in place. They have a server room to maintain net connectivity and LAN in campus. The Laboratories are provided with LCD projectors with Internet connectivity for facilitating multimedia teaching.

The institute has auditorium with the seating capacity of around 500 students, with PNB ATM, canteen facility, parking space, health centre with duty doctors round the clock facilitated with an Ambulance. The institute have sufficient number of boys and girls hostel on campus.

Good facilities are being provided by the institute for both outdoor and in doors sports and games. They have a nice stadium with track, horse riding, sports and games facilities. They are continuously maintained.

They have established systems and procedures for the maintenance of the academic and support facilities through building committees, purchase committees and finance committee under the supervision of an able administrator appointed by the manager in addition to the Principal, who is an academic administrator.

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Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QIM	The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Qualitative analysis of Criterion 5
A student council is in place in which the students are nominated based on their academics, sports and cultural activities. Meeting of the student representatives are conducted periodically to receive feedback from the students about teaching- learning, hostel life and conduct of sports/cultural events.

There is student representation from each department as members in various academic and administrative bodies like Ideating Cell, Placement Cell, Library Advisory Committee,, Women's Cell, Class Committee, Idea Incubation Entrepreneur Cell etc., at department as well as institutional level.

The institution has an active alumni association with overseas chapters in at least four to five countries. Acharya Institute of Technology Alumni association is a registered body with Government of Karnataka, (Society Number BLU –S76-2007-08, CD NUMBER-BLUS20) since 2007. Regular Alumni Meetings are conducted periodically, at least once in a year. Their contribution is very significant in placing the students in industry and providing internships. They also conduct expert lectures on latest developments in the respective fields. Peer team members during the visit.

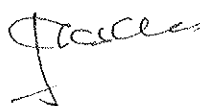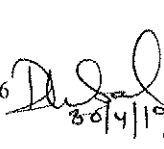The activeness of the student and Alumni participation in evident from the interaction with in the institute. |

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution
6.1.2 QIM	The institution practices decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QIM	Perspective/Strategic plan and Deployment documents are available in the institution
6.2.2 QIM	Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism
6.2.4 QIM	Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff
6.3.5 QIM	Institution has Performance Appraisal System for teaching and non-teaching staff
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution conducts internal and external financial audits regularly
6.4.3 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
6.5	Internal Quality Assurance System
6.5.1 QIM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes
6.5.2 QIM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms
6.5.5 QIM	Incremental improvements made during the preceding five years *(in case of first cycle)* Post accreditation quality initiatives *(second and subsequent cycles)*

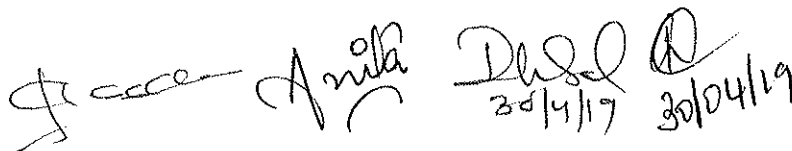| Qualitative analysis of Criterion 6 |
|---|
| The Institute's vision and mission are clearly defined and displayed at various places and website. The governing council gives the policy direction for the growth and delivery of academic and related processes. The Principal is the academic and administrative head of the institution. The principal is helped by deans (admin, academic, welfare, R and D, and examinations). The academic council headed by the Principal and with all Heads of Department and it decides the academic calendar and its implementation. The departments are headed by Head of the Departments and every department has its advisory committee, DAC and coordinators for various academic, curriculum and co-curricular activities. The IQAC gives the policy guidelines and monitors the academic processes.

 The management has delegated its authority to the Principal and the Principal in-turn has delegated the powers to HODs of all departments. Institute has a perspective plan of development including accreditation, collaboration with industry and universities, training its students in foreign language, developing research and |

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preparing industry-ready students. The Institute has an organisation structure and proper administrative set up with governing council at the top. It has service rules for recruitment, promotion, grievance redressal, etc. Various bodies, committees and cells, such as academic council, entrepreneurship cell, IBM incubation cell, Acharya IPR cell etc. help the principal in academics, administration, entrepreneurship, extension, research and development. The Institute provides various welfare measures for teaching and non-teaching staff, such as, interest-free advances, health services, management's contribution to PF, free education for first child, maternity and other leaves, free lunch for class IV employees, etc.

Faculty and staff appraisal systems have been operational in various forms over the past few years. With the introduction of ERP systems and to facilitate on-line entries by students and to inculcate efficacy in appraisals by peers and management levels, the formats are made more user friendly. The finance and accounts of the institute are audited regularly and has a mechanism for both internal and external audit. The Institute follows a proper process for mobilisation and utilisation of funds with the help of ERP system. Two practices institutionalized as a result of IQAC initiatives are: Performance based appraisal system (PBAS), and faculty training. The IQAC core committee visits the departments on regular basis and explains the purpose and substantiates the quality practices and the assurance in teaching learning process.

Teaching learning process is monitored through online feedback system. This process is carried out twice in a semester and the faculty is made aware of his / her shortcoming through report generated by the online feedback system. Internal test and semester results are the parameters taken in to consideration to improve the process of teaching and learning. The institution has adopted an integrated framework for quality assurance of academic and administrative activities. Internal Quality Assurance cell continuously acts to improve the academic performance of the institution.

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Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.2 QIM	1. Institution shows gender sensitivity in providing facilities such as: 1. Safety and Security 2. Counselling 3. Common Room
7.1.5 QIM	Waste Management steps including: • Solid waste management • Liquid waste management • E-waste management
7.1.6 QIM	Rain water harvesting structures and utilization in the campus
7.1.7 QIM	Green Practices • Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants
7.1.18 QIM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QIM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QIM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QIM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7
Safety and security of the students and employees are given first priority by the institution. Institution has a good system of student mentoring, which starts in the first year itself for all programs with the objective of nurturing the student's academic and personal growth. Common rooms with all necessary provisions are provided in the institute for both boys and girls with adequate facilities like First Aid, provisions for reading and other facilities.

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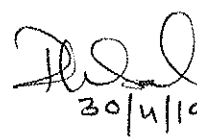30-04-2019 02:54:42

The efforts are to maintain an eco friendly campus with following good practices Practices Biogas and sewage water treatment plants are installed in the campus. "Go Green" activities like swatch Bharat, Ekta divas, Vana mohotsav, have been conducted in and around the campus. Nature watch club organizes nature camps and other environmental related activities The institute takes care of the chemicals or other waste materials which are hazardous in nature are being disposed off as EPA norms. The E- Waste is collected and disposed off periodically by the systems department following the guide lines of the regulatory agencies. The rain water is channelized towards the 4.5 acre man-made lake located in the campus, which raises the ground water table and treated effluent is used for gardening in use which minimize the water usage.

Institute has maintained green campus and several initiatives are implemented to make the institution plastic free. Institution has implemented ERP software for paperless office to some extent. Institution has encouraged to use bicycles within the campus Solar power Plant Institute has set up a roof top solar plant of 150KW, to harness green and clean renewable energy.

Institution has students with different cultural diversity, National festivals and birth day of great personalities, such as Independence day, Republic day, Gandhi Jayanthi Constitution day, Ektha Diwas, Teachers day, Engineers day, Children's Day, Dr. Ambedkar Jayanti and National Mathematics day are celebrated in the Institute.

The Institute tries to maintain transparency in its financial, academic, administrative and auxiliary functions. All the decisions that are taken in the Institute are discussed in the Academic council meeting before the actual implementation. The IQAC visits every department once in a semester and evaluates academic and administrative performance and gives its recommendation. Proctorial system with the objectives of the mentorship and monitoring the progress of students in terms of attendance, punctuality, academic performance, learning capabilities and general behaviour is one of the best practices of the Institute. Industrial Collaborations and Entrepreneurship is another best practice of the Institute. Robust industry interaction coupled with entrepreneurial promotion within institute and with industry, provides the suitable platform for the practical industry exposure to students and faculty and further enhance the knowledge and confidence for creation of entrepreneurial ventures.The Institute has one of the largest composite academic facilities, providing successful curricular and extra-curricular experiences to students from diverse cultural backgrounds.

Overall Analysis

Strengths

- Active visionary private management.
- Sprawling environment friendly, clean and green campus.
- very well established automated library
- Integrated campus with opportunity for cross cutting interactions in different fields like Pharmacy, Diploma, Law, Education etc.
- Facilitating faculty for acquiring higher degrees and doing research and providing duty leave for attending induction course/FDP/workshop/conferences
- NRI students on campus and student International exchange programs.

Weaknesses

- Need for enhancing Industry institute interaction in some areas.
- Need for improving average percentage of placements.
- Need for providing lift facility in high rise buildings
- Need for Institutional financial support to the students in terms of scholarships or tuition fee waivers
- Need for good consultancy activities.

Opportunities

- Very close to Metro-politan City Bengaluru for better placement of students
- Enhanced entrepreneurial skills
- Networking of Alumni for carrier placements, avenues and endowments
- Increase in consultancy and research through funding

Challenges

- Bridging the Industry- academia gap.
- Balancing intellectualism of students from diverse cultures and academic standards.
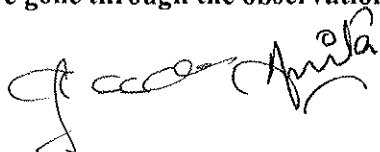- Mobilization of resources from funding agencies.

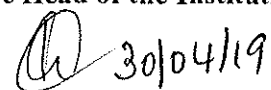## Section IV :Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Improve placements by inviting more companies in core areas.

- Enhance research activities preferably with industrial collaboration

- Improve the admissions in PG and Doctoral courses.

- Expand the scope of CBCS by adding more number of electives and value added courses for skill enhancement.

- Proactive incubation facility for innovation and entrepreneurship.

- Equip research laboratories for more research output.

- Motivate the faculty members to complete their Ph.D.

I have gone through the observations of the Peer Team as mentioned in this report

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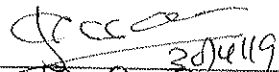
Signature of the Head of the Institution

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Seal of the Institution

PRINCIPAL
ACHARYA INSTITUTE OF TECHNOLOGY
SOLADEVANAHALLI, BENGALURU - 560107

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Sl.No	Name		Signature with date
1	KHAJA ALTHAF HUSSAIN	Chairman	
2	RANJAN BAL	Member Co - ordinator	30/4/19
3	ANITA SINGHROVA	Member	Anita 30/4/19
4	Vishnu Mahesh K R	NAAC Co - ordinator	

*This is a computer generated report and signature is not mandatory.

Place Bangalore

Date 30.4.2019

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