



Yearly Status Report - 2016-2017

Part A

Data of the Institution

1. Name of the Institution		CAMBRIDGE INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr. Suresh L
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08025618799
Mobile no.		9686001199
Registered Email		principal@citech.edu.in
Alternate Email		registrar@citech.edu.in
Address		Basavanapura Main Road, K R Puram
City/Town		Bangalore
State/UT		Karnataka
Pincode		560036
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr. K. Satyanarayan Reddy
Phone no/Alternate Phone no.	08025618799
Mobile no.	9986422972
Registered Email	iqac@citech.edu.in
Alternate Email	hod.ise@citech.edu.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://engg.cambridge.edu.in/iqac/
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4. Whether Academic Calendar prepared during the year

if yes, whether it is uploaded in the institutional website: Weblink :	https://engg.cambridge.edu.in/wp-content/uploads/2021/07/Cal-of-Events-2016-17.pdf
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5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B++	2.85	2017	22-Feb-2017	21-Feb-2022

6. Date of Establishment of IQAC

28-Jan-2016

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
NBA pre-qualifier to be uploaded within 15 days.	27-Jul-2016 1	18
Lab rubrics to be framed	07-Sep-2016	18

and implemented. Pre-qualifier approved by NBA.	1	
Vision and Mission and Quality policy to displayed at prominent places in the campus.	15-Oct-2016 1	18
Review of mock auditing for NAAC and NBA.	13-Jan-2017 1	18
Review of shortfalls identified by NAAC peer team and steps to be taken.	20-Feb-2017 1	18
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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
Citech ME	DST	Science and Engineering Research Board	2017 1095	2990000
Citech CSE	SPP	KSCST	2017 180	3000
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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 :

5

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)

NBA accreditation Process

NAAC accreditation Process

Lab Rubrics Implementation

Initiating ISR activities

ISO Quality Certification

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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
ISO Quality Certification	College was awarded with ISO 9001:2008 certificate.
NBA Accreditation Process	Preparations were made for applying prequalifier followed by SAR. NBA peer team visited the college and audit was done.
NAAC Accreditation Process	Preparations were made for NAAC accreditaiton. NAAC committee visited the college and audit was done.
ISR Activities	Institutional Social Responsibility activities were initialized. HODs were given responsibilities to form the teams in the department to carry out the ISR activities.

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14. Whether AQAR was placed before statutory body ?

No

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

Yes

Date of Visit

15-Feb-2017

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2017

Date of Submission

05-Apr-2017

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>The College has a fullfledged Management information system for the Academic and administrative functioning of the college. The administrative system in the college is fully automated with Lyceum and Libsoft software and this consists of fee management system, financial accounting for complete maintenance of college account which includes all financial transaction. The IMS module is a student information management system for maintaining complete student database. The software also contains admission management system for maintaining the records of first year students. Payroll is separately used for salary, PF, TDS etc. The College library is also automated and the information regarding availability of books, issue details, etc., is available to the students and staff at finger tips. An online public access catalogue OPAC is implemented to enable the students for speedy and convenient access to the library catalogue. All the academic and administrative issues are discussed in the appropriate Committee meetings. The suggestions are incorporated for the smooth execution. The above MIS helps in the complete Financial, Administrative and Academic implementations.</p>

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

Cambridge Institute of Technology is affiliated to VTU, Belgaum and incorporates the Curriculum prescribed by the VTU from time to time. Currently Choice Based Credit System (CBCS) is followed. Adhering to the norms of VTU, the governing council of college is constituted. Governing Council is responsible for setting guidelines for Institutional development like infrastructure, starting of new courses, setting up institutional awards, fixing criteria for admission and research, recruitment of faculty etc. Academic team consisting of Principal and Head of various departments, prepare the action plan well in advance for effective implementation of the curriculum. The action plan is ratified by the department level academic council consisting of the Head of the department, faculty, industry experts, academia experts from premier institutes, parents, student representatives and Alumni. As academic

head of the institution, the Principal conducts meetings with HODs of all departments to collect inputs and develop strategy for effective implementation of the curriculum. Based on the VTU academic calendar, the calendar of events is prepared both at institutional level and at department level. In Institutional academic calendar of events, internal test dates are clearly specified to help faculty to cover syllabus well in advance and for students to prepare for IA tests. For the smooth conduct of classes, the class time table for each semester is prepared after the subject allotment process. Bridge courses are planned and conducted for the students at the beginning of each and every semester. For each class, a class teacher is assigned to take care of requirements of students of that class. Course teachers prepare lesson plans well in advance which includes flipped class details. In accordance with the course objectives and course outcomes specified by VTU, CO-PO and CO-PEO matrix is framed along with necessary justifications and the same is updated in lesson plan. In each department 15 to 20 students are assigned to each faculty for counseling purposes. Faculty counselors interact with students and identify slow learners. For slow learners special remedial classes are conducted to enhance their learning process. Each faculty will maintain a diary which clearly indicates his/her academic contribution, non-academic workload etc. In academics, highest priority is given to the teaching-learning process and lecture sessions are delivered through methods such as Chalk and Talk, Powerpoint presentations, Quiz, Mini Projects, Case studies, Guest lecture, Seminars and Internships in collaboration with Industries. ICT based tools and technologies like Google classrooms are used. In the teaching-learning process student centric approach is followed where other than normal classroom teaching, other forms of learning are promoted which include conduct of workshops and seminars. Three IA tests are conducted and after each IA test, blue books (answer books) are evaluated by the faculty as per scheme of evaluation. Concept of Rubrics is used for the evaluation process to bring in uniformity in evaluation. Students are given an opportunity to verify IA marks and seek clarification from concerned faculty. Performance of the students is regularly communicated to their parents through SMS & progress report.

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
Oracle India Pvt Ltd	NIL	08/07/2016	180	Skill Development	Industry Readiness
WORKSHOP ON JAVA IOT	NIL	06/03/2016	1	Employability	Programming skill
3 Day workshop on Python	NIL	01/03/2017	3	Entrepreneurship	Programming skill
2 days workshop on Android	NIL	14/11/2016	2	Employability	Programming skill
Workshop on Rational Rose-UML Tool	NIL	21/09/2016	3	Employability	Programming
Seminar on Project	NIL	16/08/2016	1	Entrepreneurship	Programming

Methodology					skill
5-day FDP on GNU Radio and Software Defined Radio	NIL	27/06/2016	5	Entrepreneurship	SDR
Big data hadoop	NIL	24/02/2017	2	Employability	Big Data
Skill development Program for Engg Graduates and Faculty	NIL	04/11/2016	3	Skill Development	PSTI Bangalore, Opportunity to visit substation
Two day workshop on ARM 7	NIL	27/09/2017	2	Skill Development	A practice approach to ARM -07
Bridge course for I MCA Students- Build gap between C and Data Structures in C	NIL	14/10/2016	2	Employability	C and Data Structures in C
Enhancement of Programming Skills Mr. Avinash Pandey	NIL	21/10/2016	1	Employability	Programming Skills
Enhancement on Programming Skills with hand-on	NIL	14/11/2016	2	Employability	Programming Skills
Inauguration of ICI Student Chapter and Technical talk by experts	NIL	11/07/2016	1	Employability	Concrete Technology
Infosys Campus Connect Program	NIL	03/08/2016	180	Employability	Industry Readiness
C C workshop by Cranes	NIL	02/03/2017	15	software training	Enhance the knowledge on

Varsity for 8th Sem Students					
PLC SCADA Automation Tools	NIL	16/03/2017	2	Skill Development	Oppurtunity to learn new language which is used in industries (ladder)
Python Programming, Prof. Veera Nagaiah, MCA, CiTech	NIL	02/06/2017	1	Employabil ity	Industry ready
Algorithmic Thinking and Problem Solving, Dr. Suresh L, Principal, CiTech	NIL	16/03/2017	1	Employabil ity	Industry ready
Oracle Workforce Development Program	NIL	03/10/2017	30	Java IoT Developer	Enhancing of Java Skills
Workshop on Perceptive Insight of T ransportatio n System for Smart Cities	NIL	05/04/2017	1	Skill Development	Introduction to advances in transport ation managment

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	Nil	Nil
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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
MBA	Finance ,HRD ,Marketing	01/10/2016
MCA	Computer Applications	01/10/2016
Mtech	Computer Networks	01/10/2016
Mtech	Machine Design	01/10/2016

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

	Certificate	Diploma Course
Number of Students	905	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Project Methodology(Industry)	16/08/2016	100
Python(Industry)	01/03/2017	50
Android(Industry)	14/11/2016	22
Skill development Program for Engg Graduates and Faculty	04/11/2016	30
Two day workshop on ARM 7	27/09/2016	37
Toyota Kirloskar Motor Pvt. Limited	09/12/2016	35
Triveni Turbines	15/11/2016	15
University of Agricultural Sciences, GKVK	22/10/2016	90
Seminar on Auto-CAD and REVIT Structures	01/10/2016	110
Workshop on Perceptive Insight of Transportation System for Smart Cities	05/04/2017	200
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CSE, ISE, CV, ECE, EEE, ME	149
MBA	HRM, Marketing, Finance	104
MCA	MCA	33
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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

The institution collects the feedback on curriculum aspects and courses from different stakeholders such as the students, alumni, Faculty and Employers. Institution has an Academic Council in place to ensure and analyze academic excellence at student and faculty levels. Periodical analysis is made by Academic Council with reference to: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment. The college maintains IQAC as a quality assurance and quality enhancement measure. IQAC monitors various committees like Career Guidance, AntiRagging and Anti Sexual Harassment Committee, reinforce the curriculum by incorporating updated information and diurnal social issues. Institute collects the feedback from stakeholders viz. Students, Parents and Teachers on Curriculum which is prescribed by the university. The college conducts an annual Alumni Meet, in which suggestions and feedback are received from Alumni. The provided feedback data is presented to the Academic Council Meeting for necessary implementation in curriculum. Alumni surveys are conducted during alumni interaction at the annual alumni association meeting. Whenever any alumni visits the college, feedback is taken. Student's feedback and action taken report prepared based on the students feedback. SWACCH BHARAT was carried out based on the feedback collected from faculty, students and other stakeholders. Human Values Workshops and Seminars were conducted on Conservation of Environment and Protection of Biodiversity. Skill development and software training was introduced based on the feedback from stakeholders.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CSE, ISE, ECE, EEE, ME, CV	600	650	586
MBA	HRM, Finance, Marketing	120	140	109
MCA	Computer Applications	120	70	33
Mtech	CSE, CNE, MD	108	35	25

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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
2016	2235	345	162	30	5

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
197	95	12	10	10	11
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

The concept of designing mentorship in the institute is to build better understanding between faculty members and students. It aims at solving students' personal and academic issues during their tenure of studentship. At the beginning of the first semester and subsequent years, a mentor is allotted with 20 students and an in-house designed mentor booklet that captures all academic and non-academic details like parents/guardian's name, addresses, contact numbers and academic details, academic scores, participation in co-curricular activities etc of the students during their engineering program is maintained by the mentor. The mentor booklet is a document, serves as a ready reckoner to monitor and guide the students in both curricular and extracurricular activities. All faculty mentors encourage the students' participation (apart from curricular guidance) in co curricular, extracurricular and other professional activities, which motivates them, stimulate their growth into well rounded professionals. Regular orientation programmes and Parent meetings are conducted bringing parents into the monitoring / mentoring system as key stakeholders. Students having personal problems for attending classes need to contact their HOD to discuss how to handle the problem. In case of interpersonal issues within the class or campus for that matter, a student could approach the class teacher. In case any personal issues are reported, then the mentor will bring the same to the notice of HOD and in turn parents, if needed, parents are informed to meet HOD to address the issue and resolve it at the earliest. The outcome of the mentoring system has enhanced positive result for the student community in large.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2580	197	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
197	197	Nil	32	Nil

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
2016	NIL	Nil	NIL
2017	NIL	Nil	NIL

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination

BE	CSE, EEE, ECE, MECH, CV, ISE	I, III, V, VII	05/01/2017	26/02/2017
BE	CSE, EEE, ECE, MECH, CV, ISE	II, IV,VI, VIII	30/06/2017	16/08/2017
MBA	HRM, Finance, Marketing	I, III	02/01/2017	03/03/2017
MBA	HRM, Finance, Marketing	II, IV	13/06/2017	27/07/2017
MCA	MCA	I, III, V	16/12/2016	05/02/2017
MCA	MCA	II, IV, VI	21/06/2017	26/07/2017
Mtech	CSE, SP, MD, CNE	I, III	03/02/2017	25/03/2017
Mtech	CSE, SP, MD, CNE	II, IV	24/06/2017	12/08/2017
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As the Institute is affiliated to Visvesvaraya Technological University, the internal evaluation system is guided by university regulations. The evaluation weightage for continuous assessment tests and for the semester end examination is taken as per the scheme of syllabus prescribed by the university. The academic calendar for each semester is prepared in line with the University schedule of events, which provides the information on the scheduled timetable for internal assessments and the tentative schedule of University practical examinations. With regard to this the students can plan the course of action. The question paper pattern for the internal examinations has been standardized by the institution, similar to that of the University question paper. The Blooms taxonomy is followed in setting the question papers for Internal Assessment. Test marks are intimated to the students after evaluation and the same is communicated to their parents by post/e-mail. The academic performance and attendance of the student are maintained and recorded in each department.

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

The academic year starts based on University Academic Calendar. The University in advance publishes the Academic Calendar containing plans for curricular and co-curricular activities based on the available working days as per their norms. Principal of the college is responsible for preparing Institutions Academic Calendar in concurrence with the University Calendar. Department Calendar of events is prepared by the respective HOD in line with the college calendar of events. Approval for the same is given by the Principal after minor changes as required. The academic calendar provides the date of commencement of the academic session, duration of semester, period of internal assessment tests, final semester examinations dates etc. The time table is prepared well in advance before the commencement of a semester to avoid any shortfall in syllabus coverage. Lesson Plan is prepared by the faculty members which includes the details, viz module wise topics, number of teaching classes allocated for each unit. During the interaction with the students the objectives of each course is explained by the respective faculty. Syllabus completion is tracked by the HOD through periodic checking of lesson plan sheets, class committee meetings, record of class work and Department meetings. The laboratory Schedule is prepared by the concerned Time Table in charge of

each department and batch wise details are specified in laboratory schedule. Time Table of regular lectures for the semester is prepared and displayed on the notice boards installed at all prominent places.

2.6 – Student Performance and Learning Outcomes

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

<https://engg.cambridge.edu.in/igac/learning-outcomes/>

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
UG	BE	CSE	101	97	96
UG	BE	ECE	123	118	96
UG	BE	EEE	52	41	79
UG	BE	ISE	48	48	100
UG	BE	ME	134	133	99
PG	MBA	HRM, FINANCE, MARKETING	104	102	98
PG	MCA	MCA	33	33	100
PG	Mtech	CSE	21	19	90
PG	Mtech	MD	4	4	100

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2.7 – Student Satisfaction Survey

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

<https://engg.cambridge.edu.in/wp-content/uploads/2021/07/Students-Satisfaction-Survey-16-17.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
Projects sponsored by the University	180	CITECH	0.2	0.2
Minor Projects	180	KSCST	0.03	0.03
Major Projects	1095	SERB - DST (Science and Engineering Research Board)	29.9	5

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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
Guest lecture on Career Guidance	EEE	27/04/2017
Workshop on Rational Rose-UML Tool	ISE	21/09/2016
Orientation programme on Python programming and Applications	MCA	06/02/2017
Technical Talk on Data Communication	MCA	29/09/2016
Enhancement of Programming Skills	MCA	14/10/2016
Enhancement on Programming Skills with hands-on	MCA	21/10/2016
Technical Talk on Cloud Computing	MCA	22/02/2017
Algorithmic thinking and problem solving	MCA	16/03/2017
Domain Training on Probability and Statistics	MCA	05/04/2017
Technical Talk on Networking	MCA	15/04/2017
Talk on -3D Printing Technology	MCA	19/04/2017
Perspective insight of transportation system for smart cities, Smart Cities-GoI, CEO, Consortia of Infrastructure Engineers	CV	05/04/2017
A Five day Faculty Development Programme	ECE	18/07/2016
Management and Entrepreneurship	ECE	29/07/2016
Mathematical Fundamentals on Signals and Systems	ECE	23/08/2016
A Two day A Research Methodologies	ECE	21/10/2016
Current Trends in Embedded Systems and its Optimization	ECE	04/11/2016
Digital Design using Verilog and Current Trends in VLSI Technology	ECE	11/02/2017

Carrier Guidance after Graduation	ECE	20/02/2017
Oracle University Program on JAVA - IOT Developer	ECE	21/02/2017
Two day workshop on Big Data Hadoop	ECE	24/02/2017
An Overview of Industrial Automation Communication Technologies	ECE	13/04/2017
Ethics in Engineering	ECE	18/04/2017
Project Methodology	CSE	16/08/2016
Workshop on Android	CSE ISE	14/11/2016
Python workshop	CSE	01/03/2017
Workshop on Java on IoT, ORACLE Workforce Development Program	CSE	06/03/2017
Seminar on PLC Automation	EEE	09/08/2016
Workshop on ARM-7	EEE	27/09/2016
Workshop on PLC SCADA Automation Tools	EEE	16/03/2017
Workshop on ROBOTICS	EEE	22/04/2017
One day conference on ATCx Hyperworks	ECE	21/07/2016
Conference on Architecture to silicon to systems	ECE	06/12/2016

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
Scalable Face Image Retrieval using Attribute enhanced Sparse Coding	Chandana R Madhuri R Merlyn Renee Nisha Sharma	Cambridge Institute Of Technology	20/05/2017	Overall Excellence
Experimental Analysis of AODV,DSDV,OLSR Routing Protocol for FANETs	Jessin P Eldho Rajesh Kumar P V Sandhya Sharma Sri Durga H	Cambridge Institute Of Technology	20/05/2017	Innovative Project
Developinig RADAR Abstract communication layer	Athira A Bharath Varun A Monica V R Saranya	Cambridge Institute Of Technology	20/05/2017	Best Design
Enhancing Agriculture application using IOT Tec	Nuthan S D, Deepthi Jacob, B R Deepika Lavanya G S	Cambridge Institute Of Technology	20/05/2017	Best Project for Social Relevance
Logarithmic	Bindu,	Cambridge	20/05/2017	Best Project

Query Based Distributed Memory Monitoring	Clement S, S G Sneha, Vasanthi R	Institute Of Technology		for Technical Relevance
Home Automated Smart Mirror as IOT Implementation	Mir, Massod Ali, Jait Jacob ,Ragav Chakravarthy, Jane Jose	Cambridge Institute of Technology	19/05/2017	Best Project Award on Overall Excellence
IOT Based Garbage Collection for Smart City	Vidhya A, Hemasree D S, Pavan Kumar, Penta Vinay Kumar	Cambridge Institute of Technology	19/05/2017	Best Project Award on Innovative Project
Real Time Petrol Fill Volume Check and Tracking based on IOT	Sanjay B Maegoan, Swathi Kamli, Rakesh A M, Shaazli Sanobar Ansari	Cambridge Institute of Technology	19/05/2017	Best Project Award on Best Design
Q-less shopping cart with self checkout	Kavyashree K, K Shyamala, Souwmya C, Durga Prasanth	Cambridge Institute of Technology	19/05/2017	Best Project Award on Technical Relevance
Real Time Application for Smart Ambulance	Keerthi R K, Pavitra N, Yogitha Chilukuri, Venkatesh J	Cambridge Institute of Technology	19/05/2017	Best Project Award on Social Relevance

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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
0	NA	NA	NA	NA	Nill

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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	0	0

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

Name of the Department	Number of PhD's Awarded
ME	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	MBA	3	0
International	ECE	13	3.06
International	CSE	1	0

International	EEE	1	4
International	CV	5	0
International	ME	16	0
International	MBA	2	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
ECE	4
CSE	5
EEE	1
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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
Reviewed Study for Determination and Classification in Signal Processing.	Mr. Basavaraju.C	Airo International Research Journal	2016	0	IET, Alwar	Nil
Design and Development of Health Monitoring System	Dr.G.Indumathi	International IJER	2016	0	CiTech	Nil
Synthesis and anti-mitotic activity study of new tetralone ester intermediates of anti-cancer agent ?-apopicrophyllin analogues	Prof. Hemakumar K H	Indo-American Journal of Pharmaceutical Research	2016	5	CiTech	Nil
Photoluminescence	S.Yeshodamma	International	2016	5	CiTech	Nil

studies of Y2O3:Sm3nanophosphor irradiated with 6 MeV E-beamflow of a nanofluid past a vertical slender cylinder in the presence of a transverse magnetic fluid		journal of Engineering Research				
"Cloud Information's Study for Typical Overlapping Social Networks"	Santosh Hanchinal Dr.K. Satyanarayan Reddy	International Journal of Innovative Research in Computer and Communication Engineering	2016	0	CiTech	Nil
Enhancement of PQ in Grid Connected PV System Using Hybrid Technique	B.G.Sujatha.	Aims schaums Engineering journal	2016	5	CiTech	40
A Study on Wear Behavior of Aluminium Alloy Metal Matrix Composites	Dr. Suneelkumar N Kulkarni	International Journal of Research and Innovation in Applied Sciences, Vol I, Issue IX, Dec-2016	2016	0	CiTech	Nil
Doping phosphorene by holes and electrons through molecular charge transfer	S Manjunatha	CHEMPHYS CHEM	2017	0	CiTech	Nil

A Survey on Railway Freight Wagon	Dr. S. Shankar	IJIMINDS	2017	0	CiTech	Null
Study of Wear characteristics of Heat Treated Ultra High Carbon Steel	Dr. Halesh Koti	International Journal of ChemTech Research.	2017	0	CiTech	Null
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Study of properties on polymer materials used as biomaterials for implants.	Naveen kumar A	International Journal of Engineering Research	2016	Null	Null	CiTech
Scout Robot for Surveillance	Prof. Sha kila.D	International-IJER	2016	Null	Null	CiTech
IOT operated Wheel Chair	Prof. Girish. H .	International-IJER	2016	Null	Null	CiTech
A Survey on Railway Freight Wagon	Dr. S. Shankar	IJIMINDS	2017	Null	Null	CiTech
Evaluation of Energy Release Rate for Mode I crack propagation in GFRP structures.	Dr. Sune elkumar N Kulkarni	International Journal of Engineering and Technology, Volume 9, Issue 3	2017	Null	Null	CiTech
A review on Plastic Deformation in Equal Channels	Mr. Sagar K G	International Journal of Advances in	2017	Null	Null	CiTech

Angular Pressing		Scientific Research and Engineering				
Effect of AL203 and fly ash reinforcement particulates for fatigue behavior of the AL6061T6 alloy matrix composites	Mr. Arun L R	International Journal of Engineering Research	2016	Nil	Nil	CiTech
Enhancement of PQ in Grid Connected PV System Using Hybrid Technique	B.G.Sujatha.	Aims schaums Engineering journal	2016	5	Nil	CiTech
Design and Development of Health Monitoring System	Dr.G.Indumathi	International IJER	2016	Nil	Nil	CiTech
Reviewed Study for Determination and Classification in Signal Processing.	Mr. Basavaraju.C	Airo International Research Journal	2016	Nil	Nil	CiTech
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	37	19	30	58
Presented papers	16	4	Nil	Nil
Resource persons	1	Nil	1	Nil
View File				

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and

Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Helping Hand for the Needy	NGO - Mother Theresa Orphanage, KR Puram	5	180
Diabetes Awarness Camp	NSS WING - CiTech	4	80
Stem Cell Donation Drive	NSS WING - CiTech	10	252
PGCET Aspirants	MCA Department	6	12
Teachers day and Engineers day Celebration	NSS WING - CiTech	150	Nil
Eye Checkup Camp	Datri Foundation	50	67
Kannada Rajyotsava	NSS WING - CiTech	10	50
View File			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Nil	Nil	Nil	Nil
View File			

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

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
CET Preparation	Dept of MCA, Galaxy-E, ZION Convent dept of Mathematics	PGCET Aspirants	6	12
Stem Cell Donation Drive	Datri Foundation	Stem Cell Donation Drive	10	252
Awareness Camp	NSS WING	Diabetes Awarness Camp	4	80
Computer Graphics Festival	CiTech	Computer Graphics Festival	10	50
Eye Checkup Camp	NSS-Citech	Eye Checkup Camp	50	67
Teachers day and Engineers day Celebration	CiTech	Teachers day and Engineers day Celebration	150	Nil
Swachh Bharath	CITECH	Clean and green campus	30	251

Helping Hand for Needy	NGO - Mother Theresa Orphanage, KR Puram	Helping Hand for the Needy	5	180
View File				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Industry visit - BSNL DTTC center jaya nagar	95	Cambridge Institute Of Technology	1
Industrial Visit - ISRO	442	Cambridge Institute Of Technology	3
Industrial Visit to KMF	580	Cambridge Institute Of Technology	1
Industrial Visit Solar power plant, Kolar	96	Cambridge Institute Of Technology	1
Industrial Visit to GKVK, Bangalore.	146	Cambridge Institute Of Technology	1
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
Internship	Training	HAL - Helicopter - MRO Division	02/07/2016	15/07/2016	3
Internship	Training	NAL	04/07/2016	15/07/2016	1
Internship	Training	HappyLocate	22/08/2016	21/10/2016	9
Project Work	GalaxE Tax Declaration System	Galaxe	01/02/2017	15/06/2017	1
Project Work	Industry	Moog India Technology Center Pvt. Ltd.	23/01/2017	25/05/2017	3
Project Work	Industry	GTRE	18/01/2017	31/05/2017	3
Internship	Industry	TCS	01/02/2017	29/04/2017	8

Internship	Industry	MMSM	01/02/2017	31/05/2017	4
Internship	Industry	Wipro	01/03/2017	30/03/2017	3
Internship	Industry	ELEGANVE TECHNOLOGIES	01/02/2017	31/05/2017	4
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Think Ink Education and Research Foundation	15/09/2016	Project - Fast Recharging	45
Oracle	09/02/2017	Oracle Work force Development Program	2
Paloalto	01/02/2017	Network Firewalls	2
CADD CENTRE TRAINING SERVICES	13/10/2016	Employable skills, Latest tools and softwares	20
Impact Engineering Solutions pvt. Ltd.	02/12/2016	Project work, Internship	30
Prolific Technologies private Ltd	17/03/2017	workshop and Guest lectures	100
Infosys	12/06/2017	Infosys Campus Connect Training	102
Amcat	13/06/2017	Placement Training	600
Primo Incorporated	01/08/2016	HR Training	400
Ludus Educom	01/07/2016	HR Training	400
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
900	829

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Classrooms with LCD facilities	Existing

Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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
LIBSOFT	Fully	11	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	1065	374000	2394	913000	3459	1287000
Reference Books	104	30000	287	124000	391	154000
e-Books	Nil	Nil	10000	Nil	10000	Nil
Journals	Nil	Nil	39	61000	39	61000
e-Journals	3	1002000	8	910000	11	1912000
Digital Database	1	Nil	1	Nil	2	Nil
CD & Video	39	Nil	100	Nil	139	Nil
Library Automation	1	10000	Nil	Nil	1	10000
Weeding (hard & soft)	Nil	Nil	84	21000	84	21000

[View File](#)

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Geetha P	Data Structure and Algorithms	Google Classroom	19/09/2016
Dr. Suma S P	Engineering Mathematics-II	Whatsapp	15/05/2017

[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	677	593	752	30	0	9	40	80	2
Added	75	60	0	0	0	4	11	0	3
Total	752	653	752	30	0	13	51	80	5

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

80 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
Nil	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
166.5	144.4	516.5	471.4

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)

Facilities maintenance and management is undertaken by the campus maintenance department headed by a Resident Engineer and his support staff such as Plumbers, Electricians, Masons, Carpenters, mechanics, etc. The department carries out all maintenance activities of the campus and buildings and includes all activities necessary to operate, maintain, and provide services for campus buildings, mechanical equipments, and utilities to keep them in good operating condition. A budget is annually allocated for maintenance of the physical facilities of the institute. Servicing and Maintenance of laboratory equipments/instruments are initiated by the respective departments as and when required. The departments will periodically calibrate and service the laboratory equipments to ensure proper functioning. Some of Laboratory equipments are maintained through Annual Maintenance Contracts (AMC) with the supplying / servicing agencies. The classrooms, laboratories, seminar halls, and library facilities are utilized regularly by the students for the learning process and logbooks indicate the regular utilization of the respective facilities. Electrical power back up to the majority of equipments, computers and laboratories is provided through 130KVA UPS. Power backup to the entire campus is taken care by diesel generators with total capacity of 250KVA. UPS and DG are maintained through AMC. The institute has separate staff for House Keeping and Security Services. The sports facility of the institute is supervised by a Physical Education Director and these facilities are made available to all the students of the institute all the time. The institute has large open grounds for cricket, football, volleyball and basketball for students. Purified drinking water is provided in campus. There are 3 RO water purifying systems installed in the campus. The maintenance of water purifiers and coolers is carried by external agencies through AMC. The campus garden is

maintained by the gardener appointed by the college. Fire extinguishers are installed in the campus and their maintenance is carried out by third party agencies through AMC.

<https://engg.cambridge.edu.in/wp-content/uploads/2021/07/Procedures-and-Policies-16-17.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Fee Concession	8	550000
Financial Support from Other Sources			
a) National	OBC-(Under Fees Concession), SC/ST, AICTE/PMSSS, Jindal	1417	32031060
b)International	0	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Aptitude and Soft Skill Training	14/07/2016	361	Vista Mind
Technical and Softskills Training	21/07/2016	283	Ludus Educon
Industrial visit to NIRM	25/08/2016	50	National Institute of Rock Materials, KGF
Workshop on ARM-7	27/09/2016	37	Jyothi Embedded labs
Guest Lecture on Geotechnical aspects in Civil Engineering	30/09/2016	100	Prof. P S Ramesh, SJBIT, Bengaluru
Bridge Course on-Build gap between C and Data Structures in C	14/10/2016	33	CiTech Faculty
Guest lecture on Role of Entrepreneur in Nation Building	22/10/2016	40	Prof. Lakshmi, SJBIT, Kengeri
Skill development program on Sub-station and Transmission Lines at PSTI Bangalore.	04/11/2016	34	PSTI Bangalore
MS Office	09/01/2017	193	Ludus Educon

Training(vocational training)			
Workshop on ROBOTICS	22/04/2017	36	EEE Student
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
2016	Softskills Training, Technical skills training	387	377	14	171
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
Nil	Nil	Nil

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
35	1580	132	38	321	39
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
2016	1	BE	ME	PES UNIVERSITY	MBA
2016	1	BE	ME	Institute diploma in Interior design and decoration	MS
2016	1	BE	ECE	CMRIT	Mtech
2016	1	BE	EEE	UVCE	Mtech
2016	2	BE	ECE	Technische	MS

				University ,Germany	
2016	1	BE	CSE	Osmania University	PGDM
2016	1	BE	CSE	Vabguard Business school	PGPM
2016	1	BE	CSE	RMIT	MS
2016	3	BE	CSE	New Horizon College of Engineering	Mtech
2016	1	BE	CSE	Dalhousi University	MS
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
GRE	2
NET	1
TOFEL	2
Any Other	8
View File	

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

Activity	Level	Number of Participants
CARROM	College Level	55
DANCE	College Level	10
POKEMON GO	College Level	45
MINUTE TO WIN	College Level	50
CHESS	College Level	56
VOLLEY BALL	College Level	44
Teachers Day Celebration	College Level	512
Ethnic Day	College Level	845
Kannada Rajyotsava	College Level	140
Chiguru- Cultural Fest	National Level Cultural Fest	945
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	Number of awards for	Student ID number	Name of the student
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			Sports	Cultural		
2016	First Place	National	Nil	1	1CD12EC028	Hemanth L S
2016	First Place	National	Nil	1	1CD15ME076	Sachin C
2016	Second Place	National	1	Nil	1CD15ME075	Sabarish
2016	First Place	National	1	Nil	1CD14EC091, 1CD14EC059	Megha U N, Rujutha S
View File						

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

The College creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. The students are involved in various committees such as Alumni Committee, Anti Ragging Committee, Cultural Committee, Sports NSS Committee, Entrepreneurship Development Committee, Institutional Social Responsibility Committee, Public Relation and many more. Class representatives will be selected from each section from 1st year to Final year. The Class representative brings forward the views and suggestions of the entire class with respect to the subjects, syllabus and other nonacademic issues. The class representatives share ideas and interact with faculty and the Principal. The class representatives also help to raise funds for activities including Social events, Community projects, helping people in need. The Class Representatives also take the lead in organizing programs like paper presentations, workshops and Seminars every year. The funding for various activities of the college is provided by the College Management.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes-DRB-3/SOR/510/2016-17. Cambridge Institute of Technology believe that our alumni are the brand-ambassadors of our Institute. We have a strong social network and a positive relationship with alumni which has greatly benefitted our students. Cambridge Institute of Technology Alumni Association is the channel through which our Alumni have contributed their valuable time in sharing their knowledge in workshops and seminars to our students. The hands-on sessions delivered by our alumni on the latest technologies has motivated our students to articulate their professional career. Alumni regularly conduct and participate in many activities to name a few: 1. Mentoring the present students in their area of study, expertise and also in guiding about their career path. This would certainly train the students for their first step into the career. 2. Social service. Following our legacy, various social service activities were carried out to help the needy since 2016. The effort of reaching out to society and a noble gesture by our alumni has inspired our students at CiTech. We believe that with greater support we can achieve many more milestones and bring laurels to the Association and their Alma Mater.

5.4.2 – No. of enrolled Alumni:

609

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

5.4.4 – Meetings/activities organized by Alumni Association :

On 19th November 2016, alumni meet was organized with purpose of electing office bearers for the college "Alumni Association". Invitation was sent through mail for all the alumni of CITECH. About 50 alumni of various departments had come for the meet. Alumni chief coordinator Prof. Pankaja begun the proceedings by welcoming all the alumni and HOD's of respective department. Dr. D R Shashikumar, HOD, Dept. of CSE addressed the gathering and explained the importance of alumni meet being conducted in the college and appreciated all alumni for making up their time for this meet. In her address to gathering, Dr. Indumathi, HOD, Dept of ECE explained the purpose of the meet by highlighting the importance of alumni association with respect to NAAC and NBA accreditation for the college. Dr. Satyanarayan Reddy, HOD, Dept. of ISE spoke about the roles and responsibilities that each office bearer of the association had to take up. He also briefed about the various designations for which representatives will be elected. Alumni were provided with forms to fill up their details and also about their interest to take up various designation. Based on which, office bearers were elected by taking open opinion from all alumni. Group Photographs of office bearer of alumni association were taken along with all HOD's and chief alumni coordinator. Chief coordinator Prof. Pankaja concluded the meet by advising the Alumni's to have one more meeting with office bearers and fix the next Alumni meeting date.

<https://www.cambridge.edu.in/alumni/report/2016.html>

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 is ingrained in the administrative functioning of the institute. Participative management is an open form of management where the employees are actively involved in the conceptualization as well as implementation of various academic and administrative responsibilities. Hence, this form of management represents collective decision making which involves the Heads of the Departments and the faculty members and laboratory assistants. The faculty and staff are treated as facilitators who deal directly with the students and meet their needs. There is a structured delegation of authority that encourages the academic leadership among the faculty members who are also empowered to put up suggestions on academic/administrative/co-curricular/extra-curricular activities. The departments consist of HODs, Professors, Associate Professors and Assistant Professors who act as backbone for teaching learning process. The department is also supported by the Technical Staff to support the faculty in the conduction of labs, projects and other activities. The HoD of each department in concurrence with faculty members prepare the academic calendar in line with the college calendar. The time table coordinator of the department prepares the time table for academics which includes theory subjects, labs, forum activities and project in line with the VTU calendar of events. The absentees list of students is prepared on every day after the 2nd hour of the day and the parents are informed through SMS by the respective class teachers. All Departments organize invited talk from Industry and Academia for all students. All Departments take a proactive role in augmenting the knowledge of students beyond curriculum with hands on experience on current technologies. Regular student counselling is conducted by mentors of the department to identify and solve the student's problems. The feedback will be taken from the students to evaluate and improve the teaching learning process.

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>Actions supported in consistent and quality admissions •Advertisement in News Papers and TV News Channels and Education Fairs. •Counseling before and during admission process •Enhancing Training and Placement activities. Meritorious students are given fee concessions. Admissions to all UG and PG Programmes are done according to Govt. of Karnataka, Director of Technical Education (DTE) and VTU regulations. Admissions are as per the regulation of Government of Karnataka through CET and COMED-K for UG, PG CET for PG and management quota for both UG and PG.?The fee structure for CET/COMED-K/PGCET QUOTA is as per Govt. of Karnataka norms. Fee structure for management quota varies for different programmes.</p>
Industry Interaction / Collaboration	<p>The college has an Industry interaction/incubation cell facility. Each department has established their own collaboration and industry interaction with faculty initiatives.</p>
Human Resource Management	<p>Institute has separate departments such as housekeeping, Library staff, Administrative staff, hostel staff, security, Placement cell, department level faculty and staff. Every recruitment is carried out as per the pre defined process.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>The library is open for all the students and staff on all the days including holidays. The library is equipped with OPAC, VTU Consortium and Knimbus. Library is fully automated using library management software - LIBSOFT. The Campus has two academic blocks and two hostel blocks. The campus also has cafeteria and canteen. The institute has lecture halls equipped with LCD projectors and LAN facility. Building maintenance pertaining to cracks and physical damages will be attended by in house maintenance team.?Painting for the entire building is carried out once in two years. Lawn and garden are</p>

maintained on a regular basis. Individual departments will play a key role in calibrating the lab equipment and instruments. Regular maintenance is carried out to ensure proper functioning of the equipment. Power to the majority of equipment/instruments is supplied through UPS and hence there are minimal chances of power fluctuations. Meters and gauges are calibrated once in two years.

Research and Development

Departments are continuously applying for Research Funding from various funding agencies. The departments of ME, CSE, ECE, Maths and MBA have Research Centers approved by VTU. The college management extends financial support for paper publication to both students and faculty. Faculty pursuing Ph.D are supported with vacations and special leaves for research publications, experimentations, presentations, comprehensive/Doctoral Committee meeting/open seminars/colloquiums etc,.

Examination and Evaluation

Three IA tests are conducted in a semester after each IA test, blue books (answer books) are evaluated by the faculty as per scheme of evaluation. Thereafter, students are given an opportunity to verify IA marks and seek clarification from concerned faculty. Question bank for each subject is prepared based on course outcome and RBT levels. This will be scrutinized at the department level and then sent to IQAC cell for further scrutiny. Scrutinized question paper is finally approved.

Teaching and Learning

ICT enabled teaching is adopted. Access for course material is given through the college website. Project based learning is introduced for some courses in the curriculum. Seminars, SDPs and workshops are conducted for the students by subject experts. The students are encouraged to participate in various co-curricular events under the banner of ISTE and CSI to empower their skills. The college library provides resources like various textbooks, journals and university question papers. In addition to this, the library facility is also extended to the students at department level.

Curriculum Development

The scope is limited as the Institute

is affiliated to Visvesvaraya Technological University. We adhere to the syllabus prescribed by the University. Based on the University inputs, calendar of events is prepared both at institutional and at department level. In Institutional academic calendar of events, internal test dates are clearly specified to help faculty to cover syllabus well in advance and for students to prepare for IA tests. For the smooth conduct of classes, class time table for each semester is prepared after subject allotment process. Bridge courses are planned and conducted for the students to bridge the gap in the fundamentals.

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

E-governance area	Details
Finance and Accounts	LYCEUM
Student Admission and Support	LIBSOFT(Library Management System)
Examination	VTU QPDS and Web Portal

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
2017	Shivamurthy K P	Materials in Engg Technology- one week FDP	TEQIP	1000
2017	Hema A	Materials in Engg Technology- one week FDP	TEQIP	1000
2017	Ramesh kumar V	Integration of Alternate Energy Sources and Smart Grid	NA	900
2017	Mohandas R	Integration of Alternate Energy Sources and Smart Grid- 5 days FDP	NA	900
2017	Bharath V S	Integration of Alternate Energy Sources and Smart Grid- 5 days FDP	NA	900

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)
2017	WORKSHOP ON JAVA IOT	NA	06/03/2017	06/03/2017	45	Nil
2017	Workshop on Perceptive Insight of Transportation System for Smart Cities	NA	05/04/2017	05/04/2017	15	Nil
2017	Women's Health Awareness Programme	NA	11/04/2017	11/04/2017	3	Nil
2016	5-day FDP on GNU Radio and Software Defined Radio	NA	27/06/2016	01/07/2016	33	Nil
2016	5 days faculty Development programme	NA	18/07/2016	22/07/2016	30	Nil
2016	Guest Lecture on Geotechnical aspects in Civil Engineering	NA	30/09/2016	30/09/2016	14	Nil
2016	Data Science And Big Data Analytics	NA	03/10/2016	07/10/2016	2	Nil
2016	A workshop on Research Methodologies	NA	21/10/2016	22/10/2016	46	Nil

2016	2 days workshop on Android	NA	14/11/2016	14/11/2016	2	Nil
2017	3 Day workshop on Python	NA	03/01/2017	03/01/2017	53	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Engineering Programs and NBA Accreditation	54	05/01/2016	08/01/2016	4
Google Class Room Google Apps	54	25/01/2016	25/01/2016	1
International Journal of Innovative Research and advanced Studies	1	06/05/2016	06/05/2016	1
Sampling Theory stochastic Process	4	11/05/2016	12/05/2016	2
3rd International Conference on Convergent Innovative Technologies (ICCIT)	1	20/05/2016	20/05/2016	1
One week FDP on Materials in Engineering and Technology	2	11/07/2016	15/07/2016	5
Faculty Development Programme	54	18/07/2016	22/07/2016	5
FDP on Advances Research Challenges in the Applications of AI in	1	18/07/2016	23/07/2016	6
Applied and	1	21/07/2016	23/07/2016	3

theoretical Computing and Communication Technology				
Six Days FDP on MATLAB for engineers	1	25/07/2016	30/07/2016	6
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
32	32	2	2

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Employee Provident Fund (EPF), Casual Leave 12 days per year. Two weeks of vacation during Odd and Even semester end. Medical Insurance for Employee. Encouraging faculty for Ph.D., Faculty pursuing PhD in College Research centers are given concession in tuition fee. Partial registration fee for attending conference is extended to all faculty. Financial assistance for child education.</p>	<p>Employee Provident Fund (EPF), Casual Leave 12 days per annum, Medical Insurance, Free transport facility. The children of Non-teaching are provided with college fee waiver.</p>	<p>Sponsoring for various Workshops Conferences by compensating Registration Fees, TA DA, etc., Deputing students to various Value Added Training Programmes and in-house training Programs to improve employability. Encouraging students to participate in Sports, NSS, NCC, Tech Fests, Youth fest activities. Providing Transport facility for Industry Tours, to attend Off Campus interviews, etc. Create awareness Regarding Govt. Scholarships, Loan to minorities, loan facility for needy. The Placement and Training Cell provides Career Guidance to improve the student's employability. Leadership programme for the class representatives of all departments is conducted.</p>

6.4 – Financial Management and Resource Mobilization

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

Prior to the audit, Auditor conducts a preliminary planning and information gathering phase. The assigned auditor defines the audit objectives and likely scope of the audit. The auditor starts to develop the audit program to define the audit testing procedures. Once the audit objectives have been defined, Auditor formally issues an audit engagement memo to the management of the area that will be audited. During the audit fieldwork, detailed verification and

validation of transactions is undertaken to evaluate compliance with existing university policies and adherence to external regulations and review system related controls for data integrity and completeness. At the conclusion of the fieldwork, Auditor formally meets with management to discuss issues and audit recommendations that will be recorded in the audit report. Auditor issues the formal audit report which is used to inform senior university administrators and client management about any identified concerns and control weaknesses, and where and how these areas should be addressed. All audit reports are summarized in a separate report to the Trustee Audit, Risk and Compliance Committee.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Dr. APJ Abdul Kalam R and D Centre	7000	3-D Printer Using e-Waste
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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	Nil	Nil	Yes	Internal Audit Committee
Administrative	Nil	Nil	Yes	Internal Audit Committee

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

Every department arranges for a parent teacher meet twice in a semester. The parents are invited by faculty of all the departments. Parents are provided with details such as students' academic performance, university results, attendance and other related issues. Students having issues like irregularity, loss of concentration, help regarding tutorial classes will be addressed. Some of the students are also counselled by considering the feedback from parents. At the inaugural function of UG and PG, the parents are invited and academic expectations are informed to the parents. The parents are informed with respect to rules and regulations, scholarships, value added courses provided by the institution from time to time. Parents are part of IQAC and Grievance Cells. Parents are invited during Graduation day and their valuable feedback to improve teaching learning process and value additions are collected.

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

The staff were given training on Road safety, Swatch Bharath. They were trained how to keep the campus and departments clean. Orientation programme, Computer and skill based training Improvement programme was conducted. The support staff are provided with health facilities and uniform.

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

Continuous assessments of POs, PSOs and course files are being conducted at department level by senior faculty. Assessments and attainments of POs, PSOs, targets and result analysis based on the results of every student in internal

and external examination is being conducted as soon as the results are announced by Visveswaraya Technological University. Five-day FDP for teaching faculty is conducted every Semester during vacation where the experts from various Institutes and Corporates deliver talk on the topics like how to improve teaching and learning, counselling of students, yoga, healthier habits etc. All the faculty are supported to publish research papers in reputed Scopus indexed journals.

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
2016	A Five Day Faculty Development Program	18/07/2016	18/07/2016	22/07/2016	54
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
All In A Team - CiTech CRICKET	16/09/2016	16/09/2016	35	73
"And though she be but little, She is fierce "- An effort to empower women	14/10/2016	15/10/2016	80	70
Faculty Sport Meet	25/02/2017	25/02/2017	60	70
Guest Lecture on Women Empowerment	25/01/2017	25/01/2017	290	Nil
Win or lose - Be a fair player!!! Sports Activities @ CiTech	02/03/2017	02/03/2017	65	60

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

Percentage of power requirement of the University met by the renewable energy sources

The institute provides various means to educate or bring in awareness amongst students on climate change and environmental education as a part of curriculum. In a move to opt alternate energy resources institute has installed a solar panel system. In addition solar wind hybrid power generation is being used LED lighting (5-6 Bulbs). Dustbins are installed at various locations and cleanliness is maintained. Conscious efforts are made to switch off lights and fans when not in use, to save energy. Cleanliness drive is organized to create awareness and motivation among students to keep the environment clean.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	1
Scribes for examination	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2016	1	1	16/10/2016	1	JEE	Nil	724
2016	1	1	04/12/2016	1	CAT	Nil	899
2016	1	1	11/12/2016	1	JIPMER	Nil	499
2016	1	1	24/12/2017	2	RBI	Nil	2000
2017	1	1	22/01/2017	1	AIIMS	Nil	339
2017	1	1	04/02/2017	2	GATE	Nil	2500
2017	1	1	11/02/2017	2	GATE	Nil	2500
2017	1	1	26/03/2017	1	NPTEL	Nil	1000

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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)
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Code of conduct	05/09/2016	<p>"The Code of Conduct" was prepared to make the stakeholders aware of the rules and regulations and code of conduct that exist in the institute. All the teaching, non-teaching staff and students were informed to adhere to the rules and regulations mentioned in this document. Principal of the Institution informs the code of Conduct to the students and the parents in the first Year Inauguration Program every Year. The Discipline Committee supervises and looks in the overall conduct of the students.</p>
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7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Brainstorming session on Teamwork Ethics	02/08/2016	05/08/2016	108
"MYTRI" – A Showcase of Creativity and Talent.	09/08/2016	11/08/2016	105
Independence day celebration	15/08/2016	15/08/2016	650
Ganesh Utsav	05/09/2016	08/09/2016	300
An Expert Talk On Intercultural Communication	16/09/2016	16/09/2016	45
Swachh Bharat Mission – A step towards "Clean India"	05/10/2016	05/10/2016	40
Ayudha Pooja celebrations	08/10/2016	08/10/2016	250

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

The institute is a Green campus, serene atmosphere with more than 50 varieties of plants and trees. Tree plantation programs help in encouraging an eco-friendly environment. The students and faculty are encouraged to adopt cleanliness, making the campus garbage and plastic free zone. The Lighting and Ventilation in classrooms are adequate considering natural light and air velocity present. The installation of solar panels, paperless work systems, and composting practices are noteworthy practices. Tobacco products are strictly

banned in and around the campus. Except for documents like statutory approvals, agreements and account statements, electronic documentation is maintained. All communication regarding academics and administration are sent as emails. ? Cleanliness Drive ? Tobacco Free Campus ? Green landscaping with trees and plants ? Conserve native species of plants and trees

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice - 1: Monitoring and Evaluation of the Laboratories as per the Rubrics 1. Objectives of the Practice: • To have fair and transparent evaluation • To continuously monitor the performance of the students in lab sessions 2. The Context: It is important to establish fair and transparent evaluation system of lab sessions. There was a need to establish standardized process across all departments with respect to lab sessions. The students also need to be updated with their progress in lab sessions which will help in improving their academic performance as well as faculty members who could monitor the progress made by the students in lab sessions. 3. The Practice: The laboratory experiments have been designed by the University to impart Practical inputs for the theoretical concepts covered in the class room sessions. Students will have to complete two different lab courses in each semester. The labs in first year will be conducted according to Physics / Chemistry cycle. • In the beginning of every semester the subject allotment based on the preference from course Instructors will be finalized by the Head of the Department including labs. • Head of the Department will also nominate course Instructors as lab coordinators for each lab. • The lab coordinator will check the cycle of experiments, design modifications if any and plan for the schedule, instruction materials/ Manuals for the labs. • In the beginning of every semester conduction of experiments is also planned by lab coordinator along with other course Instructors of the concerned labs and the lab Instructor • Each class consisting of 60 students will be divided into 2 / 3 batches based on the Department constraints/requirement. • For better handling of labs and effective monitoring, the batch is divided into further subgroups based on circuit oriented / programming lab. (sub group size preferably 1-3) • The lab time table is prepared along with theory timetable and the same will be displayed in labs consisting of Course Instructor name, batch no. , lab instructor name. • The list of experiments not limited to only syllabus is planned and the same is displayed. • There will be three hours of lab sessions for each lab in a semester. • The academic calendar as per VTU will be followed to complete the experiments. • Special labs, Test is planned as required by each batch by Lab coordinator • Continuous evaluation procedure is followed as per rubrics indicated. • It is required by every student to come prepared with the experiment and record the readings in observation book and the experiment details consisting of aim, theory/ working principle/ flowchart/ algorithms with diagrams/ graph/ tabular column to be written in the records after every experiment and submitted to the lab for evaluation by concerned course instructors. • Final Internal test will be conducted at the end of semester as per calendar and External exam as per University schedule. 4. Evidence of Success: The students' academic performance was improved. Overall results of the students also improved. The faculty members were able to manage the lab sessions more effectively. 5. Problems Encountered and Resources Required: The faculty member had to be trained and given awareness about the process and the rubrics. The faculty members felt that at the initial stage fair amount of time is spent on implementing the rubrics rather than the actual lab routine. Title of the Practice -2: Rubrics for Student Counseling: 1. Objectives of the Practice: • To counsel the student(s) effectively • To streamline the counseling process 2. The Context: Students need help and support in many ways from faculty members. Counseling is one of the methods to help and support

students. The rubrics will help in establishing standardized procedure. 3. The Practice: The goal of student counseling is to establish a trusting and confidential working relationship with a student or groups of students to help them to set goals and/or make changes in behavior. Focus on problem solving, decision-making, social-emotional development and the personal issues and concerns that impact learning and development. Help each student to achieve success in their academics, career, and personal/social arena. Analyze, and explore behaviors and attitudes that impact a student's ability to perform successfully in the learning community. A counselling rubric was designed to capture the interactions of mentors and mentees. This helped during parent teacher's meeting. 4. Evidence of Success: Overall student involvement and performance was enhanced through this intervention. 5. Problems Encountered and Resources Required: There were no major problems as such. However, the students are not completely open for discussion, they might still have inhibitions in expressing their problems.

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

<https://engg.cambridge.edu.in/wp-content/uploads/2021/07/BEST-PRACTICES-16-17.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

Student Support System - Learning ecosystem in CiTech has been robust and many initiatives have been identified to help and support student's learning system. Few of the initiatives in establishing leaning ecosystem are mentioned below: • Bridge Courses and Remedial Classes: At the beginning of every semester the students will be attending bridge course which will help them to prepare for the courses of the study well. The students who are slow learners are identified and special remedial classes are held for such students. • Involvement of Student representation: The class representative meeting is held twice in a semester. This meeting is attended by The Principal, HoDs and faculty co-ordinators. The inputs from the student representatives will be taken to improvise the learning ecosystem. Some of the key decisions pertaining to students such as discipline, events etc. will also be discussed by the Principal during the class representative meeting. • Review of suggestions received through suggestion box: Students can provide suggestions in suggestion box placed in every department. The box will be opened on a regular basis and necessary process will be initiated to address the concern/suggestion shared by the students.

Provide the weblink of the institution

<https://engg.cambridge.edu.in/wp-content/uploads/2021/07/Institute-Distinctiveness-16-17.pdf>

8.Future Plans of Actions for Next Academic Year

In view of the visit by the accreditation committee, the Institutions and the Departments had to prepare for the accreditation visit. It was decided to focus on a rigorous audit of all the Departments including Library, Office and other general facilities. Before the audit, all Departments were asked to complete the documentation work and necessary proof. It was suggested to plan for completing the documentation and audit before 2017. It was also suggested to plan for infrastructure improvement by adding auditoriums or seminar halls for conducting conferences, workshops and seminars. Academic planning for 2017-18 in terms of changing the internal assessments pattern, planning and conducting procedures of assessment. It was suggested to improve upon the squad duty for internal

assessments. To work upon the dissemination of Vision and Mission statements of Institution through academic documents.