

ACHARYA INSTITUTE OF TECHNOLOGY

ACHARYA DR. SARVAPALLI RADHAKRISHNAN ROAD, SOLDEVANAHALLI
BANGALORE, KARNATAKA – 560107



NAAC SELF – STUDY REPORT

2016 - 17



THE LOGO STATEMENT

The logo statement symbolizes an upwardly pointing triangle which denotes caution, strength, technology, fire, harmony and perfection. The area suggests rainbow, organic growth, search, adventure and modesty at the same time.

Each colour have its distinct characteristics like the -

Blue is the colour of the sky and sea. It is often associated with depth and stability. It symbolizes trust, loyalty, wisdom, confidence, intelligence faith, truth and heaven. The colour orange is associated with joy, sunshine and the tropics; it represents enthusiasm, fascination, happiness, creativity, determination, attraction, success, encouragement and simulation. The white in the logo is associated with light, goodness, innocence, purity and virginity. It is considered to be colour of perfection.



Vision

“**Acharya Institute of Technology**, committed to the cause of sustainable value-based education in all disciplines, envisions itself as a global fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence”.

Mission

“**Acharya Institute of Technology** strives to provide excellent academic ambiance to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research and ethical service to sustainable societal needs”.

Motto

"Nurturing Aspirations Supporting Growth"



ACHARYA INSTITUTE OF TECHNOLOGY

Affiliated to Visvesvaraya Technological University, Belgavi. Govt. of Karnataka.
Approved by AICTE, New Delhi. Accredited by NBA, AICTE, New Delhi.

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

The SSR is prepared by the institution after internal discussions and no part thereof has been out sourced.

I am aware that the Peer team will validate the information provided in the SSR during the peer team visit.

Place: Bengaluru

Date : 31/3/2017

Dr. H. D. MAHESHAPPA

Principal

Acharya Institute of Technology
Bengaluru





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Statement of Compliance

This is to certify that Acharya Institute of Technology fulfills all norms.

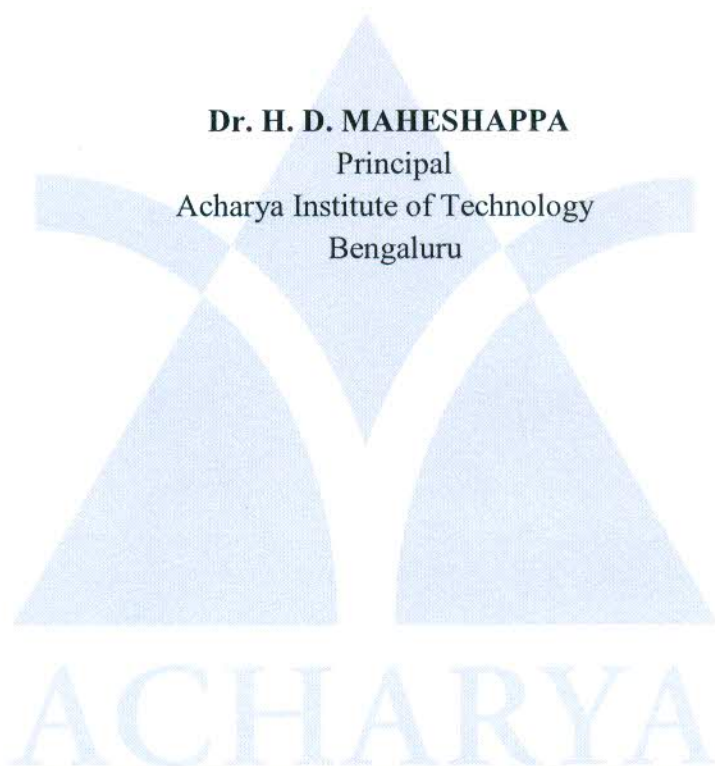
1. Stipulated by the affiliated University and/or
2. Regulatory Council/Body(such as UGC, AICTE, etc)
3. The affiliation/recognition is conditional, and then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its affiliation or recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false, then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Place: Bengaluru
Date : 31/3/2017

Dr. H. D. MAHESHAPPA
Principal
Acharya Institute of Technology
Bengaluru





Preface

Acharya Institute of Technology (AIT), Bangalore, an establishment under JMJ Education Society marked its beginning during 2000 in Soldevanahalli. The Institution has grown to being the aegis for thirteen undergraduate programs, ten postgraduate programs and eleven research centers on this date, is in itself an indicator of a remarkable growth it has achieved over a decade and half. The Institution has state-of-the-art infrastructure, facilities and eco-friendly green campus. The campus boasts of unique architectural marvels, open spaces, spacious corridors and excellent sylvan surroundings that which are essential and ideal for serious teaching and effective learning. Since inception, the Institution has progressed by leaps and bounds in infrastructure, facilities, teaching learning effectiveness with skilled and competent faculty. The Institution is committed towards requirements of the stakeholders and community alike by producing the students with best skills, competent, socially committed, and concern for the cause of development and address challenges of the future.

Since inception, the institution has introduced many new academic programs to meet the increasing demand and changing needs. Bachelor of Engineering (AE, AU, BT, CV, CSE, CTM, ECE, EEE, ISE, MSE/ME, MT, MI), Post graduate courses (M. Tech in BT, CNE, CSE, DCE, FS, MMD, PDM, PSE, MBA, and MCA). Research centers in the department of Bio Technology, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Science and Engineering, Mechanical Engineering leading to M.Sc Engineering by Research and Ph. D. Ph. D programmes in Basic Sciences (Chemistry, Mathematics and Physics), MBA and MCA. The Institution got permanent affiliation for its nine courses out of thirteen courses from Visvesvaraya technological University. Acharya Institute of technology is also recognized as technical campus by AICTE.

The Institution enriches the students for holistic development and creates forum for academic and professional interaction with alumni, academicians and industry experts. Conventional one-way teaching is replaced by experiential and practical learning with the use of ICTs and the discipline interlaced by friendly mentoring. Didactic lectures, participatory learning



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methodologies are practiced through small group discussions, use of Simulations, Seminars, faculty development programmes, workshops etc.

This has resulted in a remarkable achievement in academic, curricular, co-curricular and extra-curricular activities and contributed to comprehensive teaching-learning experience and life-long learning by the commitment of the competent faculty backed by prudent administrative staff.

The Institution ensures always to be in line with the potential market scenario and meet the future challenges. Volume I Self Study Report, Volume II-Part I containing evaluative reports of the departments for the year 2012 – 2016 and Volume II-Part II evaluative report containing the publications by the faculty.

On behalf of the chairman, management, faculty, staff and student's of Acharya Institute of Technology, I, with strong commitment to sustain quality and excellence in all endeavors of education, teaching, research and extension activities am privileged to submit the proposals for 1st Cycle assessment by the NAAC.

Bangalore

Dr. H D Maheshappa
Principal
Acharya Institute of Technology

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Abbreviations

ACM	: Accademic Council Meeting
AE	: Aeronautical Engineering
AES	: Acharya Educational Services
AICTE	: All India Council for Technical Education
AIEFL	: Acharya Institute of English and Foreign Language
AIPS	: Acharya Institute Proctorial System
AIT	: Acharya Institute of Technology
AITAA	: Acharya Institute of Technology Alumni Association
AITBI	: Acharya Institute of Technology Business Incubation
AO	: Administrative Officer
AU	: Automobile Engineering
BIEC	: Bangalore International Exhibition Centre
BoS	: Board of Studies
BT	: Bio Technology
CARE	: Continuous Attendance Reporter
CBCS	: Choice Based Credit System
CET	: Common Entrance Test
CFL	: Choloro Florescent Light
CFO	: Chief Finance Officer
COMEDK	: Consortium of Medical, Engineering and Dental Colleges of Karnataka
CoE	: Calendar of Events
CoP	: Council of principals
COs	: Course Outcomes
CPRD	: Corporate and Public Relations Department
CSE	: Computer Science and Engineering
CTM	: Construction Technology Management
CV	: Civil Engineering
DAC	: Department Academic Committee
DCM	: Deputy Chief Mentor
DCN	: Digital Computer Networking
ECE	: Electronics and Communication Engineering
EEE	: Electrical and Electronics Engineering
ERP	: Enterprise Resource Planning



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FDP	: Faculty Development Programme
FS	: Forensic Science
ERP	: Enterprise Resource planning
GATE	: Graduate Aptitude Test in Engineering
GC	: Governing Council
GRE	: Gratitude Record Examination
GoI	: Government of India
GoK	: Government of Karnataka
GUI	: Graphic User Interphase
HoD	: Head of the Department
HR	: Human Resources
IBM	: International Business Machines
ICT	: Information and Communication Technology
IELTS	: International English Language Testing Systems
IPR	: Intellectual Property Rights
IIT	: Indian Institute of Technology
IISc	: Indian Institute of Science
IQAC	: Internal Quality Assurance Cell
ISE	: Information Science Engineering
KEA	: Karnataka Examination Authority
KSCST	: Karnataka State Council for Science and Technology
LCD	: Liquid Crystal Display
MBA	: Master of Business Applications
MCA	: Master of Computer Applications
ME	: Mechanical Engineering
MI	: Mining Engineering
MMD	: Mechanical Machine Design
MODROB	: Modernisation and Removal of Obsolesce
MOOC	: Massive Open Online Course
MoU	: Memorandum of Understanding
MSc	: Master of Science
MSE	: Manufacturing Science and Engineering
MSRUAS	: M.S.Ramaiah University of Applied Science
MT	: Mechatronics
NAAC	: National Assessment and Accreditation Council
NBA	: National Board of Accreditation



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NCC	: National Cadet Corps
NMIT	: Nitte Meenakshi Institute of Technology
NPTEL	: National Program on Technology Enhanced Learning
NSS	: National Social Service
OER	: Open Education Resource
OMR	: Optical Mark Recognition
OPAC	: Online Public Access Catalog
PBAS	: Performance Based Appraisal System
PDM	: Product Design and Manufacture
PG	: Post Graduate
PGCET	: Post Graduate Common Entrance Test
Ph.D	: Doctor of Philosophy
PEO	: Program Education Objectives
PSE	: Power System engineering
PO	: Program Objectives
PSO	: Program Specific Objectives
R and D	: Research and Development
RFID	: Radio Frequency Identification
SAP	: Systems Applications and Products in Data Processing
SPOC	: Single point of Contact
SPT	: Special Placement Training
SWYAM	: Study Webs of Active –Learning for Young Aspiring Minds
SWOC	: Strength Weakness Opportunity Challenge
TLP	: Teaching Learning Process
TOEFL	: Test of English as a Foreign Language
UG	: Under Graduate
UGET	: Under Graduate Entrance Test
USA	: Unites States of America
UTL	: United Technologies Limited
VGST	: Vision Group of Science and Technology
VLSI	: Very Large Scale Integrated Circuits
VTU	: Visvesaraya Technological University



Executive Summary

Acharya Institute of Technology seeded its growth under JMJ Education Society in the year 2000. It is part JMJ Education Society with its sister institutions spread over sprawling 120 acres campus at Soldevanahalli, an extension area of Bengaluru city. The campus today houses Acharya Institute of Technology, Acharya Polytechnic, Smt. Nagarathnamma School of Nursing, Acharya and B. M. Reddy College of Pharmacy, Acharya College of Education, Acharya's NRV School of Architecture, Acharya School of Design, Acharya Pre-University College, Acharya School of Management, Acharya Institute of English and Foreign Languages, Acharya Educational Services, Acharya School of Law and Acharya Institute of Graduate Studies.

Affiliation

Acharya Institute Technology established in the year 2000 approved by All India Council for Technical Education, New Delhi(AICTE) and is affiliated to Visvesvaraya Technological University, Belagavi. The Institution marked its beginning by offering undergraduate programs engineering in Computer Science and Engineering, Electronics and Communication and Information Science and Engineering with an intake of 180. Today it offers thirteen programs at Under Graduate level, ten at Post graduation level including Master of Business Administration(MBA) and Master of Computer Applications(MCA) along with 11 research centers leading to M.Sc(Engg.) by research and Ph.D. The present intake is 1170+SNQ quota, PIO/NRI and lateral entry and 630 at post graduate level.

It is one of the most sought Institutions among the aspirants for graduation and post graduation studies. The influential factor is the institution's commitment for the holistic development of the students apart from imparting quality education and remaining on par with the changing academic needs. The institution even empowers the students for employability, academic and professional excellence. The academic stay at the institution ensures creation of well skilled and trained responsible citizens.

Administration

The governing council constituted has 12 members consisting of the representation from JMJ educational society, academicians, industry representatives and faculty with principal as its member secretary. The governing council formulates the policies and monitors the administrative, academic and developmental activities.

Certain institutional needs are met by the centralized support units like human resource, finance and accounts, admissions, central public relations department, purchase, maintenance, house keeping, placement cell, systems department, transport and Acharya clinic.

The in-house committees are formed for the smooth functioning of academic and administrative works such as academic delivery, conduct of university examination, library, sports and cultural events, mentoring system, anti-ragging, women cell, disciplinary issues. It also, has alumni association, internal quality assurance cell, research and development cell, industry institute interaction cell, innovation cell, technology business

incubation center, grievance cell, student welfare cell, counseling Cell. ISTE, IEEE, CSI, ASME, SAE and student chapters, NSS, NCC, nature club, hobby club, big data community cell formed, function to deal with academic, quality assurance, extension and welfare services.

Curricular Aspects

Acharya Institute of Technology offers B.E in i)Aeronautical Engineering, ii)Automobile Engineering, iii)Bio Technology, iv)Civil Engineering v)Computer Science and Engineering, vi)Construction Technology and management, vii)Electronics and Communication Engineering, viii)Electrical and Electronics Engineering, ix)Information Science and Engineering, x)Manufacturing Science and Engineering, xi)Mechanical Engineering, xii)Mechatronics xiii)Mining Engineering. It offers M.Tech in i)Bio Technology ii) Computer Science Engineering iii)Computer Net work Engineering iv) Cyber Forensic and Information Security, v) Digital Communication vi) Machine Design vii) Product Design and Manufacturing, viii)Power Systems Engineering and ix) MBA x) MCA. It also has research centers in the department of i)Bio Technology ii)Chemistry iii) Computer Science Engineering iv) Electronics and Communication Engineering v) Electrical and Electronics vi)Information Science and Engineering vii)Mathematics viii)MBA ix)MCA x) Mechanical Engineering and xi)Physics.

The institution has experienced faculty as per AICTE norms, who deliver academic curricula and supervise and carry out research. The institution strives to achieve the stated Moto, Vision, Mission and Values thus paving way for attainment of excellence in higher education and community orientation.

The institution incorporates departmental and institutional activities with strict adherence to the academic calendar of VTU and institution. At present, the institution follows the Choice Based Credit System (CBCS) for the first two years of BE program and first year of M.Tech. Value added programmes like communication skills, soft skills, special placement training are offered to the students. Curriculum augmentation pertaining to the topics in syllabus is done so as to provide quality education to the students thus aiding in broadening their knowledge horizon. The classes are enriched by adopting various teaching methods, laboratory experiments, project work, field visits, internships and use of ICT tools.

Teaching-Learning and Evaluation

The centralized admissions department of the JMJ education society abides with the norms of the Government of Karnataka and AICTE a statutory body for its admissions. The transparent and effective delivery of curricular and extra curricular activities, value added programs and good placements over the years results better percentage of admissions. Concessions in fee and scholarships are provided for the needy. Group insurance coverage is granted to the students by the institution.

The institution maintains the diversity of the faculty intake and boasts of well-qualified faculty with great commitment to the profession and passion for teaching whose

years of teaching and industrial experience and academic credentials is an asset which is at students' disposal. The faculty members are deputed to participate in seminars, FDPs, workshops, syllabus orientation, refresher programmes/courses and conferences to broaden their knowledge horizon and to remain updated with the latest developments in the respective fields. The institution acknowledges the faculty members' and students' achievements and accomplishments through increments, promotions and felicitations.

The institution incorporates departmental and institutional activities with strict adherence to the academic calendar of VTU and AIT and prepares annual institutional academic calendar. Orientation programmes conducted during the commencement of the academic year acclimatise the students to the new academic environment and let-know the students the learning outcomes. Students' level of knowledge is assessed through Preliminary Assessment Test (PAT) and eventually, improvement in academics is ensured by holding remedial and tutorial classes to slow and advanced learners. Special care is given to the differently abled students and the needy. Institution follows the mentoring system, wherein around 20 students are guided by an individual mentor. The faculty members are encouraged to adopt various teaching pedagogy with ICT to make the teaching learning process effective and thus creating a learning environment conducive for critical thinking, creativity and scientific temper.

The faculty members use the teaching pedagogy like interactive learning, group discussion, case studies, constructive / problem solving learning, etc., The Institution has an independent library with digital and e-resources. The institution has academia-industry interface thus enabling the students to have a practical exposure. The Institution has organized personality development, skill development programs to the students to make them industry ready. Students are given assignments, paper presentations and insisted on participation in workshops and seminars for their overall development and to take the learning process beyond the classrooms. The institution houses students from over 40 different countries and has been successfully catering to the academic and intellectual requirement of students coming from diverse backgrounds belonging to different faiths, socio-cultural, linguistic and regional background. Over 5051 students pursue PG/UG courses on campus.

Departmental Academic Committee monitors the academic delivery and conduct of internal assessment adhering to VTU scheme of teaching, examination and evaluation. As a result of these efforts towards maintaining high standards of teaching, learning, evaluation process, the student performance and learning outcome has been on rise continually. These learning outcomes are manifested in high rate of student progression from UG to PG.

The institution supports its faculty and student alike by providing library facility, laboratories and access to online resources. The grievances, if any, are addressed and resolved by the grievance cell. The institution follows the student feedback mechanism, which has aided in improving the teaching, learning process and related mechanism supporting excellence.

Research, Consultancy and Extension

The institution gives equal importance to research and extension activities. It has 44 faculty members with doctoral degree, 88 faculty members pursuing PhD. The Institution releases grants out of corpus fund for research work. The Institution is recognized by UGC with 2(f) and recognition for 12(B) is awaited. The motivation thus received has resulted in increase in the number of notable publications in journals of national/international repute with h-index, impact factor and a few articles / papers of interdisciplinary in nature.

The faculty members have contributed chapters in books, published books and are editors too. The faculty and students' thirst for knowledge of the novice in their respective domains is quenched by encouraging participation in National and International seminars, conferences and workshops and by reimbursement of the registration fee. The institution motivates the faculty members by providing research leave and sabbatical leave for their research work and higher studies to foster research culture and develop scientific temper. Special lectures and interaction with scientists, academicians, experts and technocrats are organized at regular intervals. The institution has organized national and international conferences, seminar and FDPs. Inter-collegiate fests are also organized by various departments. In the four years the publications in international / national journals and conferences are 710. Twenty four books are authored / edited and chapter contributions

A few faculty members of AIT are invited as resource persons at other institutions and a few others provide guidance to the research scholars of other universities. The institution has signed MoUs and has collaborative arrangements with Universities industries and industry associations viz., 1)Illinois Institute of Technology, Chicago, USA 2)Florida International University, Florida, USA 3)Northern Illinois University, Dekalb, Illinois, USA, 4)Harrisburg University, PA, USA, 5)Carleton University, Ottawa, Canada, 6)Trinity Western University, Canada, 7)Old Dominion University, Norfolk, USA, 8)University of Illinois, Rockford, USA, 9)The University Institute of the Coast, Cameron, 10) Waljat College of Applied Sciences, Muscat, Sultanate of Oman, 11)University of Applied Sciences, Lubeck, Germany. NETWORK WITH INDUSTRIES: MOOG India Technology Centre, Bangalore, IBM India Pvt. Ltd., Genius Minds SAP India Pvt. Ltd., ITB, UTL Technologies Limited, Dynamatic technologies Ltd., Mahindra and Mahindra Ltd., Infosys Ltd., Sasken Communication Technologies Ltd., and TIME. Network With Industrial Associations: CII, IDMA, KDPMA, FICCI, BCIC, ABLE, IMTMA, Peenya Industries Association, Indian Electronics and Semi-Conductor Association, Computer Society of India, National Design and Research Forum, Indian Horticulture Research Institute

The institution organizes the extension activities including the faculty and students to inculcate social responsibility towards community and serve the societal needs like no plastics, health, hygienic awareness camps, swach Bharath, construction of roads, extension lectures in rural areas, blood donation camps, NSS and NCC camps / participation in rural areas for awareness and development, etc. Certificates of Appreciation are received for the extension activities organised by the institution.

Infrastructure and Learning Resource

The institution has enhanced the infrastructural facilities by considering the increase in number of courses over the years. The campus is eco-friendly; Wi-Fi enabled with state-of-the-art infrastructure and facilities and is under the constant supervision 24/7 by a centralized security team. The campus has open green spaces, separate parking area for vehicles, well-maintained canteen and hostels with ideal ambience for learning. The Institution has 137 class rooms and tutorial rooms, (9543 sq m), 105 laboratories(11581 sq m), work shop(1673 sq m) centralized computer centers(1400 sq m), Drawing Hall 2 numbers(306 sq m), Library(4633 sq m) amenities (1600 sq m) administrative area(1700 sq m), faculty rooms (1800 sq m) language laboratories. The institution has spacious auditoriums and sports complex for organizing curricular and extra-curricular activities. Sports complexes houses facilities for indoor and outdoor games to promote sports activities. It also provides facilities for NSS and NCC activities. The campus houses recreational spaces, and cafeteria. The Health Centre provides medical aid to the students and faculty.

First aid service and ambulance facility can be called for any emergencies. The institution has a library which has over 78,000 books, 7 e packages 109 printed journals, e-books, Audio-visual aids and an e-learning resource centre with UGC-INFLIBNET N-List programme, with digital facilities. It has a reading room, reprography and internet facility that supports in preparation of computer aided teaching learning materials. The library advisory committee plans the library budget, mechanism for development and evaluates the feedback of the library use. The maintenance section and house-keeping units maintain all facilities like buildings, roads, water supply, power supply, hostels with solar water heater facility and upkeep. The systems department with qualified staff maintains the net connectivity, Wi-Fi, computers and other communication systems. The garden section takes care of gardens and ensures the maintenance of greenery on campus. The campus also, has rain water harvested lake, waste water treatment plant, bio gas plant, solar water heaters supporting eco-friendly environment.

Student Support and Progression

The institution strives to attain the vision through converting mission into reality by meticulously working on the objectives which acts as catalyzing agents in the holistic development of the students. The institutional website www.acharya.ac.in/ait/ provides objective information/factual details on the institution, admission procedures and programmes offered. The institution places prime importance on quality education and performance of the students. The Institution has accommodated students from 40 different countries across the world.

The in-house academic audit teams of the institution prioritize and monitor curriculum enhancement and its implementation regularly. Students are provided with avenues for development of their skills and personality through various student centric programs like personality development and soft skills etc. The institution also facilitates remedial classes, conducts coaching classes for competitive examination. The students are involved in extension activities through NCC, NSS and departments. The process of learning for the students is taken beyond the classroom by their necessary participation in club

activities of the respective departments and activities of other committees. Counseling cell, placement cell, grievance cell, alumni association, anti-ragging committee and women cell help the students with pertaining issues. Adequate measures are taken to reduce the dropouts and improve the students' performance at academics, curricular and extra-curricular activities. Students' feedback is instrumental in devising the support services.

The institution promotes awareness programs on social issues and encourages observing days of significance to inculcate moral values, ethics, and societal responsibility. Creative and writing skills are boosted by bringing out departmental magazines and creating blogs. Interest in sports is bolstered by encouraging participation in Sports meet held at college/district/university/national level. The cultural committee revives the varied interests in students. It has been successful in winning the accolades for the institution in the events like painting, debate, extempore, fashion show etc. The institution has ensured discipline among the students and faculty which befit the decorum of academic surroundings. The institution organizes gender sensitization programmes. Equal opportunity cell, women cell, prevention on sexual harassment cell too organizes the activities of the same nature.

Governance, Leadership and Management

The institution-specifies policy statements and strategic plans laid down by the management with a definite time line to align with the vision, mission and values. The institution has a well sequenced organization structure that practices decentralization of a few facets, participative management and continuity of leadership in administration and academic activities. It has also groomed leadership among faculty members at various levels. The institution recruits and appoints the eminent faculty members with doctoral degree / pursuing Ph.D. and master's degree. The recruitment procedure is done as per the norms of the HR. The institution admits / recruits the OBC/SC/ST faculty members and students and also provides fee concession / waive of fees to the socio-economic background / needy students.

The institution has a defined perspective plan for its future development. The management is committed to promote use of ICTs in teaching and learning process, administration and management of affairs towards quest for excellence. The stakeholders' feedback and exit interview are acted upon. The management provides adequate support to faculty and student for their academic pursuits and even rewards their achievements. The institution follows 360⁰ performance appraisal system. The notable growth of the institution from a humble beginning to the present is due to the vision, mission and motivation of the management to take education to the next level. The management grants required autonomy to the head of the institution i.e., principal. The principal holds meetings with the heads of the departments and committees to account the activities and expenditure and prepares the budget for the approval.

The institution has IQAC consisting of principal, coordinator, senior faculty, external experts, student, alumni and parent representatives. IQAC holds academic audit and peer audit regularly to guarantee the quality sustenance. Performance Based Appraisal System (PBAS) for the faculty consists of i) self appraisal ii) appraisal by the head of the department iii) appraisal by head of the institution iv) student feed back. The PBAS system has a novel scope for grievance redressal of the evaluations by IQAC. The principal, in coordination with

governing council and IQAC, guarantees the policy implementation and makes required organizational changes to meet the needs of stakeholders.

The institution provides welfare facilities like special leaves (research, maternity/paternity, sabbatical, marriage leave), transportation, medical facilities (health center and 24x7 ambulances), ramp facilities for differently-abled students, common rooms, rest rooms, Insurance etc., for students and faculty members too. The Institution has implemented the enterprise resource planning (ERP) system to adhere the organizational needs for effective administration and management.

Innovation and Best Practices

The institution leaves no stone unturned to provide quality education and create citizens with social responsibility. Hence, it adopts many innovative practices and initiates quality initiatives in pursuit of the same.

The institution commits the social responsibility activities by creating a class of students whose services will better the surroundings of the society. Hence, it initiates awareness programs of noble causes. The increasing rate of environment deterioration is sensed by the institution and hence initiates programs towards creating environmental consciousness among the students and faculty. The institution observes world environment day, world water day, swatch Bharat abhiyan, and van-mahotsav week. Nature watch club of the institution pioneers environment-related activities. NSS and NCC wings too hold street plays and mimes on social issues. The camps by NSS unit have yielded in initiating a malnutrition project in collaboration with Scania Pvt. Ltd. The amenities within the campus are eco-friendly. Restricted use of vehicles within the campus, initiative to use battery operated vehicles, use of biodegradable wastes in the maintenance of flora, rainwater harvesting facility towards the upkeep of greenery, artificial lake, effluent water treatment plant, sewage water treatment are the certain measures on campus taken up by the Institution in its aesthetic sense of responsibility towards the environment and society. Parking facility is provided for the vehicles. However, there is no exclusive green audit process in the institution.

The online portal and social networking sites have facilitated admission process in the institution. The institution firmly believes in assessment of the potential of the students through preliminary assessment test and accordingly designing the teaching-learning methodology.

The institution privileges the student and faculty alike in the pursuits of knowledge in the respective domains. The institution has mentoring system and counseling cell to track the academic behavior and to counsel students if found needy of it. Class representatives are deputed for each class to facilitate communication on the changes sought for in the teaching-learning process.

The setting up of IQAC to monitor the teaching-learning process and the related facets is another major initiative towards attaining quality excellence. Internal quality audit is done by the IQAC members periodically, which monitors and ensures systematic

documentation within each department and evaluates the quality of teaching and learning. The feedback during the audit is acted upon which consequently aids in the progress of the Institution. The institution makes use of digital learning laboratories to facilitate curriculum and non-curriculum programmes.

Of the two best practices, the mentoring system has evidence of success which is visible from the testimonials of the end-users. The confidence of the students is increased due to the expertise training and measures taken by the college. The students and their parents have been very happy with the mentoring system. The percentage of drop-outs did reduce greatly after implementing the system. The behavior of the students on the campus in general has witnessed a tremendous improvement and the students are much happier and contented with their course of study at the institute after the implementation of the mentoring system.

Inspired by the honorable prime minister's vision of Startup India and make in India, Acharya Institute of Technology is motivated to accelerate the entrepreneurial ecosystem by establishing Acharya Institute of Technology Business Incubator (AI-TBI) to accomplish the mission of encouraging the ambitious young talents. The Dictum towards nurturing knowledge based, technology driven innovative ideas to support sustainable growth and to develop socially responsible entrepreneurs. The institute's stress on imbibing research culture has yielded societal benefits. This poses a need to establish an incubator which would leverage ideas and bring to limelight, the aspirations of igniting minds. The EDC at AIT established with the support of AICTE has nurtured and supported the development of entrepreneurs among the students and alumni.

The institution has implemented the enterprise resource planning, leave management for faculty, inventory system, personal record maintenance, financial accounting.

Performance in Academics, Sports and Cultural Events

Over the years AIT has been bagging ranks and gold medals in academics both in UG and PG programmes. During 2012-13, 4 gold and 15 ranks, during 2013-14, 4 gold medals and 17 ranks, during 2014-15, one gold medal and 23 ranks, and during 2015-16, 3 gold medals and 20 ranks. Students participate in university, zonal, all Indian University events representing AIT and VTU. They have bagged 22 gold medals, 30 silver medals and 16 bronze medals in last four years. They have participated in various cultural activities have bagged 43 first position 18 second position and 13 third position at the university level. Three first position and 2 third position at the state level, Eight first positions, 3 second positions, one third position at the national level, while 5 first position at international competitions.

SWOC Analysis of the Institution

The institution that fosters the zeal to grow and flourish as an academic intelligentsia objectively evaluates its strength, weakness, opportunities and challenges. Acharya Institute of Technology, not being complacent about its strength doesn't negate the limitations (weaknesses) that need to be overcome, opportunities that need to be harnessed and exploited and challenges that need to be addressed to arrive at excellence in academics and research. SWOC analysis of the Institution is as follows:

Strengths

- 1) Qualified, committed, experienced faculty with good infrastructure facility.
- 2) Industry- Institute Interaction- Providing platform for students practical training in terms of projects, internship, and placements.
- 3) Effective mentoring system is in place is adding value to the students performance and overall development.
- 4) Global mix of students

Weakness

- 1) Less flexibility for outcome based education.
- 2) Cadre ratio and retention of faculty.
- 3) Attracting meritorious students.

Opportunities

- 1) Exchange with industry, research institutes and institutes of higher learning.
- 2) Consulting and research through funded projects from agencies and industries.
- 3) Getting autonomous status for implementing Outcome Based and Experiential Learning.
- 4) Promoting the entrepreneurship by setting technology business incubator.

Challenges

- 1) Changing education policy is deterrent to the affiliated education system
- 2) Ensuring placements in a recessionary economy
- 3) Upgrading of facilities in a controlled academic administrative policies with stagnant inflow of funds.

Conclusion

Acharya Institute of Technology has scaled a rapid growth in terms of quality and quantity since its inception in 2000 with support of vision of the management and governance. The state-of-the-art infrastructure, amenities and other support services provided in the campus has fostered the student growth as well as the learning process. The institution with its defined vision leading to the objectives has played an important role in the holistic growth of students. The research initiatives, industry-academia interface, extension and outreach



programmes by the institution have promoted research culture and establishment of good rapport with the community and industries. In pursuit of excellence, AIT looks forward to achieve more heights in the times ahead.

The thrust in academic excellence and holistic growth of the students remain the prime focus of the institution. The faculty members join hands in the Institution's fervor to enhance and sustain quality education paving way for the attainment of Vision, Mission and Values. The institution's societal commitment provides avenue for the faculty members and students alike to render services to the economically and physically disadvantaged sections. The institution today can boast of activities and accomplishments with regard to the social responsibility and academic excellence. The institution promises to itself to do every possible thing to quench its thirst to reach the zenith of academic excellence.

The institution is gearing up for the first cycle assessment by the National Assessment and Accreditation Council. The Self Study Report at the desk is the authentic reliable text documenting the information and essential data of the institution. The report is prepared as per the "Institutional Accreditation Manual for Self Study Report- Affiliated/Constituent Colleges". Volume I of the report contains executive summary, profile of the institution, criteria-wise inputs, Volume II, Part I contains the evaluative reports of the departments and Volume II, Part II gives the details of faculty publications in international and national journals /conferences and the books authored /edited/ chapter contributions.

Profile of the Institution

1. Name and Address of the College:

Name :	Acharya Institute of Technology	
Address :	Acharya Dr.Sarvepalli Radhakrishnan Road,Achit Nagar P.O	
City :Bangalore	Pin :560107	State :Karnataka
Website :	www.acharya.ac.in	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	H. D. Maheshappa	080-28394700	+91 9483178899	+91-80-23700242	principalait@acharya.ac.in
Vice Principal	Balasubramanya.N	080-22555555 Extn:2201	+91 9482082346	+91-80-23700242	balasubramanyan@acharya.ac.in
Steering Committee Coordinator	S. C. Pilli	080-22555555 Extn:2143	+91 9448001224	+91-80-23700242	scpilli@acharya.ac.in

3. Status of the Institution:

Affiliated College	√
Constituent College	
Any Other(specify)	

4. Type of Institution:

a. By Gender

i	For Men	
ii	For Women	
iii	Co-education	√

b. By Shift

i	Regular	√
ii	Day	
iii	Evening	

5. It is a recognized minority institution?

Yes	
No	√

6. Sources of funding:

Government	
Grant –in-aid	
Self-financing	√
Any other	

7. a. Date of establishment of the college: 04/09/2000
 b. University to which the college is affiliated : Visvesvaraya Technological University
 c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks
i. 2 (f)	07-02-2017	The college has been included in the list of colleges prepared under section 2(f) of the UGC Act, 1956 under the Head “Non-Government Colleges teaching upto Masters Degree”

Under Section	Date, Month & Year	Remarks
ii. 12 (B)		The college is not eligible to receive Central assistance under Section 12(B) of the UGC Act, 1956 as the University is not declared fit under Section 12(B) to receive it

(Enclosed: Enclosure-I Certificate of recognition 2 (f)) of the UGC Act)

- d. Details of recognition /approval by statement by statutory/regulatory bodies other than UGC:- AICTE

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month & Year (dd-mm-yyyy)	Validity	Remarks
APH-2016-17 AICTE Act, 1987 (52 of 1987) & section (4.3) of Gazette policy regulation No.F.No:37- 3/Legal/AICTE/ 2012 of AICTE dated 27/09/2012	F.No.South-West/1- 2812360393/2016/EOA	25/04/2016	2016-17	

(Enclose the recognition/approval letter): Enclosure-II – AICTE Approvals

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes ☒ NO ☐

If yes, has the College applied for availing the autonomous status?

YES ☒

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes ☐

No ☒

b. for its performance by any other governmental agency?

Yes ☒

No ☐

10. Location of the campus and area in sq.mts:

Location *	Urban
Campus area in sq. mts.	61109.7 sq.mts
Built up area in sq. mts.	76714 sq.mts

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities :√
- Sports facilities
 - play ground : √
 - swimming pool : Not Available
 - gymnasium √
- Hostel

* Boys' Hostel		
i	Number of hostels	6
ii	Number of inmates	499
iii	Facilities	Wi-Fi, Entertainment Room, Power back up, Gymnasium, Indoor games facility, Laundry etc.

* Girls' Hostel		
i	Number of hostels	5
ii	Number of inmates	146
iii	Facilities	Wi-Fi, Entertainment Room, Power back up, Indoor games facility, Laundry etc.
* Working women's' Hostel		Nil

- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise)

Teaching Staff	20
Non Teaching staff	02

- Cafeteria — √

- Health centre — √

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance :√
Health centre staff –

Qualified doctor Full time ☒ Part-time ☐

Qualified Nurse Full time ☒ Part-time ☐

- Facilities like banking, post office, book shops √

- Transport facilities to cater to the needs of students and staff :√

- Animal house :NA

- Biological waste disposal:NA

- Generator or other facility for management/ regulation of electricity and voltage √

- Solid waste management facility √

- Waste water management √

- Water harvesting √

12. Details of programmes offered by the college (Give data for current academic year)

Program Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned Approved strength*	No. of students Admitted
UG	Aeronautical Engineering	4	PUC /12 th / HSC/ or Equivalent	English	144	135
	Automobile Engineering				72	52
	Biotechnology				35	26
	Civil Engineering				144	89
	Computer Science & Engineering				144	135
	Construction Technology & Mgmt.				72	20
	Electronics & Communication Engineering				144	119
	Electrical & Electronics Engineering				144	82
	Information Science & Engineering				144	131
	Manufacturing Science & Engineering				72	19
	Mechanical Engg				144	119
	Mining Engineering				144	49
	Mechatronics				72	67

Program Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned Approved strength*	No. of students Admitted
PG	MBA	2	Degree	English	276	188
	MCA	3	Degree		276	153
	CSE	2	BE		28	18
	Machine Design	2	BE		21	15
	Digital Communication	2	BE		21	13
	BT	2	BE		21	3
	Power System Engineering	2	BE		21	17
	Computer Network Engineering	2	BE		21	11
	Product Design Manufacturing	2	BE		21	11
	Cyber Forensic & Information Security	2	BE		21	4
PhD	PhD	-	PG	English		97

*Sanction approved intake includes intake(30/60/120)+5% Super Numerary Quota(SNQ)+15%PIO

13. Does the college offer self-financed Programmes?

Yes ☒ No ☐

If yes, how many? 34

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No		Number	11
-----	-------------------------------------	----	--	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Basic Science & Humanities	Mathematics			√
	Physics			√
	Chemistry			√
	Humanities	√		
Engineering	Aeronautical Engineering	√		
Engineering	Automobile Engineering	√		
Engineering	Biotechnology	√	√	√
Engineering	Civil Engineering	√		
Engineering	Computer Science & Engineering	√	√	√
Engineering	Construction Technology & Mgmt.	√		
Engineering	Electronics & Communication Engineering	√	√	√
Engineering	Electrical & Electronics Engineering	√	√	√
Engineering	Information Science & Engineering	√	√	√
Engineering	Mechanical Engineering & Manufacturing Science & Engineering	√	√	√
Engineering	Mining Engineering	√		
Engineering	Mechatronics	√		
Management	MBA		√	√
Computer Applications	MCA		√	√

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

a.	annual System	Nil
b.	semester System	23
c.	trimester system	Nil

17. Number of Programmes with

a.	Choice Based Credit System	23
b.	Inter/Multidisciplinary Approach	-
c.	Any Other	-

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes ☐

No ☒

19. Does the college offer UG or PG programme in Physical Education?

Yes ☐

No ☒

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical	
	Professor		Associate Professor		Assistant Professor					
	M*	F*	M*	F*	M*	F*	M*	F*	M*	F*
Sanctioned by the UGC / University / State Government	--	---								
<i>Yet to recruit</i>										
Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	22	2	13	5	152	117	37	35	37	8
<i>Yet to recruit</i>										

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	22	2	7	1	8	4	44
M.Phil.							
PG	-		6	4	144	113	267
Temporary teachers NIL							
Part-time teachers: NIL							

22. Number of Visiting Faculty /Guest Faculty engaged with the College --02

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 1 2016-17		Year 2 2015-16		Year 3 2014-15		Year 4 2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	60	28	58	25	60	27	54	22
ST	10	03	12	10	18	9	20	10
OBC	184	65	127	63	221	84	244	70
General	779	232	818	336	813	235	859	257

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	Ph.D.	Total
Students from the same state where the college is located	582	326	96	1004
Students from other states of India	314	64	01	379
NRI students	Nil	Nil		Nil
Foreign students	73	2		75
Total	969	392	97	1458

25. Dropout rate in UG and PG (average of the last two batches)

UG

UG

5%

PG

1.6%

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

a) including the salary component

Rs.1.72 Lakhs

b) excluding the salary component

Rs.1.09 Lakhs

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes ☐

No ☒

28. Provide Teacher-student ratio for each of the programme/course offered

UG/PG	Program Course Offered	Students/Teacher ratio
UG	Aeronautical Engineering	16:1
UG	Automobile Engineering	20:1
UG/PG	Biotechnology	18:1
UG	Civil Engineering	20:1
UG/PG	Computer Science & Engineering	20:1
UG	Construction Technology & Mgmt.	20:1
UG/PG	Electronics & Communication Engineering	20:1
UG/PG	Electrical & Electronics Engineering	20:1
UG/PG	Information Science & Engineering	20:1
UG/PG	Mechanical Engineering & Manufacturing Science & Engineering	20:1
UG	Mining Engineering	51:1
UG	Mechatronics	20:1
PG	MBA	20:1
PG	MCA	20:1

29. Is the college applying for

Accreditation : Cycle 1 ☒

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) NA

31. Number of working days during the last academic year. :

32. Number of teaching days during the last academic year : 208
33. Date of establishment of Internal Quality Assurance Cell (IQAC)
IQAC ----- 30/04/2016
34. Details regarding submission of Annual Quality Assurance Reports
(AQAR) to NAAC - NA
35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information) - Nil

Criterion – I: Curricular Aspects

1.1. Curriculum Planning and Implementation

1.1.1 State the vision, mission and Values of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders?

Vision

“Acharya Institute of Technology, committed to the cause of sustainable value-based education in all disciplines, envisions itself as a global fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence.”

Mission

“Acharya Institute of Technology strives to provide excellent academic ambience to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research, ethical, and sustainable service to societal needs.”

The vision and mission statements are communicated to all the staff, students and parents and stake holders through the institute website, prospectus, and induction programme, back cover page of blue books, departmental newsletter, and institute magazine. These statements are also displayed at prominent places of the institute.

Values: Pursuit of Excellence

Integrity and Transparency
Leadership

Motto “Nurturing Aspiration and supporting Growth”

1.1.2. How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- 1) Acharya Institute of Technology is affiliated to Visvesraya Technological University and curriculum is designed by the University.
- 2) For the effective implementation of the curriculum, the hierarchy is shown in Fig.1.1 for planning, implementation and monitoring. Monitoring of course file, course material, attendance, internal assessment marks is carried through teaching learning process audit.

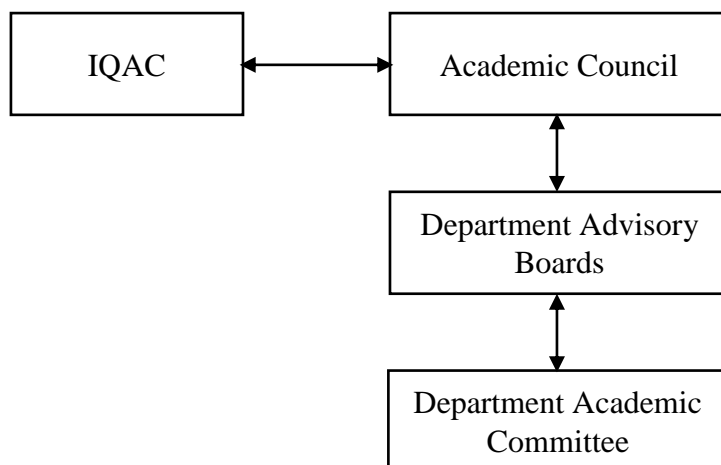


Fig1.1 Curriculum implementation hierarchy

1) Academic council:

Academic council is the Apex body of Acharya Institute of Technology .It is headed by the principal and all heads of the department are its members. It meets regularly to discuss all the university related issues and the academic activates of the institute. The decisions of the academic council are brought to the notice of all faculty and students through Head of the departments for effective implementation.

2) Departmental Advisory Board:

Departmental Advisory Board recommends the necessary steps to be taken for the delivery and improvement of academic status. 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 departmental academic issues.

3) Departmental Academic Committee:

Each department has the Departmental Academic Committee for the effective monitoring of the academic process. Head of the department is the chair person and senior facultyare its members. The DAC committee of the department reviews the lesson plan, course materials and also the conduction of internal assessment examinations.

4) The internal quality is monitored through

- (i) The Internal Quality Assurance Cell
- (ii) Steering Committee
- (iii) IQAC Core Committee

The Internal Quality Assurance Cell is headed by Principal with an External academic Experts, senior faculty members, student representative and Alumni representatives as its members. The committee reviews and gives guide lines in academic matters.

IQAC Steering Committee is headed by the principal, the senior faculty and a convener. This committee meets periodically and formulates the policies and guide lines. It also undertakes the TLP audit. IQAC steering committee periodically reviews the findings in TLP audits and reports the progress/performance to the IQAC cell.

IQAC Core Committee consists of IQAC Steering Committee and Heads of various departments. This committee monitors the academic process. The lesson plan and course material prepared by all the faculty members for both theory and laboratory courses are monitored by TLP audit.

1.1.3. What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

VTU the affiliating university provides curriculum and scheme. The institution provides administrative and infrastructural support to translate effectively the curriculum / academic through procedures.

- 1) Institution provides the best infrastructure for class room teaching, equipments and amenities for effective learning.
- 2) Faculty undergo FDP / e- learning / Brainstorming.
- 3) Faculty are deputed to attend workshops, conferences, pedagogy related programs to enhance their knowledge domain.
- 4) Industry Institute Interaction for field inputs.
- 5) Eminent educationist, scientists and industry experts are invited to address the faculty and students.

1.1.4. Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

For effective delivery of the curriculum the institution is practicing and has implemented the following.

- 1) For teaching – learning activity, the required ambience is created in all the class rooms and laboratories
- 2) Well prepared lesson plans are communicated to the students through e-mail in the beginning of the semester
- 3) Experts are invited from industry and academia to deliver invited talks in the relevant fields of the cutting edge technologies
- 4) Institute has provided the requisite internet and Wi-Fi connectivity.
- 5) Adequate library facilities are provided with regular additions of books, journals and remote access facilities of VTU e-journals consortia and other e-resources using EZ proxy 24x7.
- 6) Students are exposed to projects and are given opportunity to contribute for the successful completion of the same.
- 7) Students are also supported financially by Karnataka State Council for Science and Technology for innovative projects.
- 8) Soft skill training programs, company specific trainings, pre placement trainings etc. and domain training programs such as ethical hacking, Analytical techniques, Bioinformatics, Training on STAAD-PRO and E-TABS, REVIT Architecture, Java Programming, Android Programming, C, C++, Mat Lab Programming, Emerging trends in Process Automation with DCS/PLC and SCADA overview, Android Apps development and BIG DATA and HADOOP ECO-SYSTEMS, Geometric Dimensioning and Tolerance etc. for relevant branches of engineering is being organized.
- 9) The Heads of the departments in their regular faculty meetings plan, methodologies of the curriculum, delivery and other course activities incorporated in the Calendar of Events

1.1.5. How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

The institution has developed strong linkages with reputed industries, recognized research bodies and foreign universities for mutual benefit.

- 1) Advisory board members of the department are from industries and academia who will contribute for the development and effective implementation of the curriculum.
- 2) With the support of the industries, internship and training are being provided to the students
- 3) Project / industrial visits are arranged for the students
- 4) Recent developments in all the engineering fields are updated to the students and faculty by the experts invited from the recognized sectors
- 5) Institute encourages to have MoUs with Industries and Universities and universities

- 6) Institution placement cell has developed a very good network with representatives of the industries to enhance the placement opportunities for the benefit of our students
- 7) Academic related programs are conducted by the industries in the AIT campus.
- 8) Institute has academic collaboration with foreign universities, R and D organizations and industry

Table 1.1 MoUs with universities

Institutions	Areas of Specialization
Foreign Universities	
Illinois Institute of Technology, Chicago, USA	Computer Science, Electronics, Business Management, Telecom and Software Engineering, Data Analytics, Network Engineering, VLSI, ITM.
Florida International University, Florida, USA	Information Systems, Information Technology, Computer Engineering, Computer Science, Cyber Security
Northern Illinois University, Dekalb, Illinois, USA	Engineering Management, Industrial Management, Integrated Systems Engineering, Industrial and Systems Engineering, Electrical Engineering
Harrisburg University, PA, USA	Computer Science, Business and Data Analytics, Cyber Security, Machine Learning, Software Engineering and System Analysis, Computational Biology
Carleton University, Ottawa, Canada	Aerospace Engineering, Industrial Engineering, Electronics, Civil Engineering, Computer Science, Information Technology, Information Resource Management, Mechanical Engineering
Trinity Western University, Canada	Leadership Management, Business Management
Old Dominion University, Norfolk, USA	Computer Science, System Programming, Computational Geometry, Computational Methods and Software, Civil Engineering, Mechanical Engineering, Architectural Support for Cloud Computing, Distributed Systems, Data Mining and Security, Machine Learning, Design of Network Protocols, Information Visualization, Wireless Networking and Mobile Computing

Institutions	Areas of Specialization
University of Illinois, Rockford, USA	Biomedical Sciences, Pathology, Bio-informatics, Pediatrics, Psychiatry
The University Institute of the Coast, Cameron	Civil Engineering, Computer Science, Mechanical Engineering, Business Management
Waljat Institution of Applied Sciences, Muscat, Sultanate of Oman	Electronics, Computer Science, Business Management, Electronics and Communication Engineering
University of Applied Sciences, Lubeck, Germany	Engineering and Technology, Mechanical Engineering
Indian	
IITB	Spoken Tutorials-Open Source Software under the Ministry of HRD
Government Tool Room and Training Center	Tool and Die Making, Tools Designs, Precision Manufacturing, Tool Engineering

Table 1.2 MoUs with R and D organizations and industries

Institutions	Areas of Specialization
R and D Organizations	
National Aeronautics Ltd	Aeronautical Engineering
Sasken Communication Technologies Limited	R and D project in the areas of Telecommunication, Consumer electronics, Automotive infotainment and Multimedia, Cloud based IOT platform, Product engineering ,Digital transformations
Moog India Tech. Centre	Moog is a designer, Manufacturer, and Integrator of precision motion and control.
IBM India Pvt. Ltd.	Mobility services, Networking services, Resiliency and Business continuity, Security services, Systems services Technology support services
UTL Tech. Pvt. Ltd.	Telecommunication, e-governance, Information technology.
SAP India Pvt. Ltd.	ERP Solutions using SAP applications.
Dynamatic Technologies Ltd	Designs and builds highly engineered products for Automotive, Aeronautic, Hydraulic and Security applications.

Institutions	Areas of Specialization
Prasiddi Engineers	Material handling equipments, Material handling product, Material handling systems, Hand pallet trucks, Hydraulic hand pallet trucks, Manual hand stacker.
Trinity Institute of NDT Technology	Non destructive Testing
Mahindra and Mahindra Ltd.	Automotive Engineering
Infosys Campus Connect Program	Next Generation services in design thinking, Platforms and knowledge-based IT, SAP
Edall Systems	CFD , Analysis and Design, Optimization Studies, Wind Tunnel test support, Flight mechanics
TIME	Coaching in GATE, GRE, TOFEL, ILTS
Rooman Technologies	Networking and Internet security

1.1.6. What are the contributions of the institution and / or its staff members to the development of the curriculum by the University? (Number of staff members / departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided specific suggestions etc.

Faculty members of various departments as detailed below in the following Table 1.3 were/are members of Board of Studies.

Table 1.3 BoS members

Dept.	Year			
	2013-14	2014-15	2015-16	2016-17
AE	S. K. Maharana*,			
BT				S. M. Gopinath*
CV			N. Balasubramanya ^{\$}	N. Balasubramanya [#]
ECE				1.B. M. Sujatha [†] , 2. Rajeswari ^{**}

Dept.	Year			
	2013-14	2014-15	2015-16	2016-17
EEE	R. Prakash*			
ISE	G. Mahesh\$\$			
ME				S. C. Pilli*
MSE				K. Mahesha*

*VTU Belgaum, \$Alliance University, # NMIT, Bangalore University, **MSRUAS, Bengaluru, \$\$Dr. AIT, Bengaluru

1.1.7. Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed

No

1.1.8. How does institution analyses/ensure that the stated objectives of curriculum are achieved in the course of implementation?

To achieve curriculum objectives the following steps are followed.

- 1) For proper delivery of curriculum, the institute conducts FDP on one theme at the beginning of each semester like teaching methods, classroom management, innovative teaching methods, theory and laboratory linkages etc.
- 2) Faculty members are trained with Wipro Mission 10x program
- 3) Mini projects are offered to student in higher semesters
- 4) Industry institute interaction cell of the institute takes care of domain training in specialized subject and Internship for real life experience of engineering.
- 5) Each faculty member uses various methods of pedagogy like lecture demonstration, PPT, NPTEL, Videos, laboratory experiments, seminars by students, group discussion and debate.
- 6) Analysis is done by conducting three internal assessment Tests, assignments and seminar presentation. The internal Assessment marks are mapped with COs for attainment.

The feedback on curriculum is collected from students, teachers, alumni, industry experts and other stake holders for the development and revision of curriculum and is communicated to the respective Board of studies of VTU Belgaum.

1.2. Academic Flexibility

1.2.1. Specifying the goals and objectives give details of the certificate / diploma / skill development courses etc., offered by the institution.

Institute has designed courses at different semester levels. Students will have soft skill programs, skills in domain areas and entrepreneurship skills right from the first year of their study. Student will also get certificate for the value added courses. Alumni will help for the Pre-placement training. GATE and TOFEL coaching are provided for the desirous student seeking higher studies. The skills in domain areas are provided to the student in their relevant fields through lectures, hands on training, group discussion and colloquiums.

1.2.2. Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

No

1.2.3. Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability issues make over the following and beyond

Since institution is affiliated to VTU Belgaum, it adopts the university curriculum. The university curriculum has basic science, departmental core and departmental elective and open electives. Range of electives provides an opportunity to the students to gain more domain knowledge in the area of his / her interest. Besides curriculum add on courses are offered. To gain knowledge, seminar / guest lectures are organized frequently for the benefit of students inviting resource persons from industry and academia. For job opportunities and higher studies, students are given coaching for skill and domain development training, GATE, GRE, TOFEL and ILTS at Acharya Institute of English and Foreign Language (AIEFL). Students are also given an opportunity to learn foreign languages like German, French etc., through AIEFL from 2nd year onwards. Students are taken to industries and projects to gain the practical knowledge. Final year students will have academic flexibility in the selection of their projects and seminars in the department, industries or research organizations. The projects help the students to apply, integrate knowledge and work in a team. The seminars help the students to improve the writing and presentation skills.

A) Range of core/Elective options offered by the university and those opted by the institute:

The students must compulsorily register for all the core subjects as prescribed by the university. Core subjects consist of Basic Science subjects, subjects in the branch domain dealing with Engineering Science and Technology. There are five departmental electives spread over the course and each elective constitutes a group of courses. The student has a

choice to select from each group getting a specific domain knowledge. The Open electives are inter disciplinary offered by other departments other than the branch of his/her study

B) CBCS system and range of subject options:

Students of UG and PG programs have the options of choosing electives of their choice among the given groups. The elective subjects offered are based on the latest technological and industrial needs

C) Courses offered in modular form

D) Credit transfer and accumulation facility

E) Lateral and vertical mobility within and across programmes and courses

F) Enrichment courses

1.2.4. Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

Table 1.4 Undergraduate, post graduate and research programmes

Bachelor of Engineering	Post Graduation M.Tech. / MBA / MCA	Ph.D./ MSc. (Eng.)
Aeronautical Engineering	Bio Technology	Bio Technology
Automobile Engineering	Computer Science and Engineering	Computer Science and Engineering
Bio Technology	Computer Network Engineering	Electrical and Electronics Engineering
Civil Engineering	Cyber Forensics and Information Security	Electronics and Communication Engineering
Computer Science and Engineering	Digital Communication Engineering	Information Science and Engineering
Construction Technology and Management	Product Design and Manufacturing	Mechanical Engineering
Electrical and Electronics Engineering	M.Tech. - Machine Design	Chemistry

Bachelor of Engineering	Post Graduation M.Tech. / MBA / MCA	Ph.D./ MSc. (Eng.)
Electronics and Communication Engineering	Power Systems Engineering	Mathematics
Information Science and Engineering	Master of Business Administration	Physics
Mechanical Engineering	Master of Computer Application	MBA
Manufacturing Science and Engineering		MCA
Mechatronics Engineering		
Mining Engineering		

Table 1.5 Admission quota percentage wise

CET	COMED-K	Management	SNQ	PIO
Bachelor of Engineering				
45	30	25	05	15
M.Tech.				
80		20		15
MBA/MCA				
50		50		15

1.2.5. Does the college provide additional skill oriented programs, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.

Skill oriented programs are embedded in the regular time table of each semester. These programs are monitored by placement department. Domain training programs are also organized as per the needs. Value added training are given to the students as per details in Table 1.6

Table 1.6 Soft skill training programs organized

Program details	Target Group	No. of Beneficiaries				
		2012-13	2013-14	2014-15	2015-16	2016-17
Soft Skill Training	All Students	2823	3486	3687	3545	3723

Program details	Target Group	No. of Beneficiaries				
		2012-13	2013-14	2014-15	2015-16	2016-17
Pre – Placement Training	Pre final year and final year Students	1126	1585	1879	1910	1930

1.2.6.Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students?

-No-

1.3 Curriculum Enrichment

1.3.1.Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?

Importance is given for the university curriculum and students are focused from the point of employability and professional career. The goals and objectives are achieved through the following.

1) Faculty development program , 2)Guest lectures on emerging technologies, 3)Augmented syllabus, 4)Workshops, Seminars and Conferences, 5)Assignment, presentations and group seminars,6)Academic fests and exhibitions, 7)Study tours and industrial visits, 8)Industry Institute Interaction, 9)Training programs, 10)Encouraging research activity,11) NSS / NCC, 12)Internships

1.3.2. What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the student so as to cope with the needs of the dynamic employment market?

The institution has been assigning the global trends, technological advancement and professional needs from time to time accordingly plans, special programs like seminars, workshops, conferences, group learning, field visits, special lectures, experimental learning opportunities, industrial fairs etc. Alumni’s interaction, feedback and outgoing student feedback/ exit interview help to a great extent to enhance the experience of students so as to cope with the changing needs of the dynamic employment market.

Special emphasis is also laid on skill development, personality development, behavioral skills, critical thinking skills, social conduct, organization skills, decision making skills, communication skills, creativity and innovations, interpersonal development skills. Such programs are organized at the beginning of semesters every year. Table 1.7 gives details of program and beneficiary during 2012 to 2016

Table 1.7 Skill development - beneficiary

Target Group	No. of Beneficiaries			
	2013-14	2014-15	2015-16	2016-17
I year students	1057	1025	1015	954
Domain	870	1020	1634	1733

1.3.3. Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The institute addresses the crosscutting issues by organizing

1) Constitution Day, 2) Environment Day, 3) International Climate Day, 4) Human Rights Day, 5) Earth Day

Many activities are organized on the following by involving the faculty and students.

1) NSS 2) NCC 3) Nature watch 4) ICT

1.3.4. What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

Students are addressed 1) On life skills, 2) Moral and ethical values 3) Guided to acquire higher education, 4) Employability and life skills, 5) Carrier option - education and research, 6) Community orientation and social responsibilities, 7) Special Placement Training(SPT), 8) GATE, TOEFL and GRE, 9) Foreign languages – German, French, Japanese and Italian , 10) AES / AIEFL Programs

1.3.5. Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Institute follows the feedback system for effective functioning.

1. Performance Based Appraisal System
 - a) Self Appraisal b) IQAC TLP Audit c) Appraisal by HOD d) Appraisal by Principal e) Appraisal by Students

2. Feedback from Stake holder

a) Alumni, b) Parents, c) Advisory board members and d) Exit interview

1.3.6. How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution monitors the quality of enrichment programs through feedback taken during the program conducted and quality is monitored on a percentage scale based on the responses of the stake holder.

1.4 Feedback System**1.4.1. What are the contributions of the institution in the design and development of the curriculum prepared by the University?**

- 1) Faculty participation in curriculum development program organized by VTU.
- 2) Suggestions sent to BoS for consideration while developing the curriculum syllabus

1.4.2. Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

No

1.4.3. How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

Based on the opinions of the stake holders, field survey and Industrial needs, the following new programs were introduced in the last four years.

Table 1.8 New programs in the last four Years

Branch	Year
M.Tech. in product Design Manufacturing	2012
B.E. in Manufacturing Science and Engineering	2013
B.E. in Mining Engineering	2013
M.Tech. in Security and Cyber Forensics	2014

Criterion II Teaching – Learning and Evaluation

2.1 Student Enrolment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

Website

The publicity is through website, brochure, and counselors. The transparency is maintained by following the marks and regulation of the admission of Government of Karnataka. The Institute's website <http://www.acharya.ac.in/ait> presents sufficient information on institute, programs, its infrastructure, faculty, activities and admission details including fee structure for candidates and parents.

Online Brochure Facility

The Institute's online brochure contains information of various departments, faculty, infrastructure, placements, achievements etc., along with guidelines for admission seeking candidates and their parents.

Counsellors

Counselors are available in the admission section to guide the students and their parents who visit the campus. The students / parents can obtain relevant information through phone calls and emails.

Publicity

Bangalore being an IT hub and many number of companies under its umbrella has attracted students to take up their higher education. The institution has a long-standing history of over 15 years and has an exemplary reputation for higher education in Karnataka with a large number of programs to choose from. Course details, eligibility criteria, calendar of events, course highlights, campus facility, placements, etc., are briefed to the students and the same is readily available in the prospectus as well as institute website.

For management seats advertisement are released in Daily Newspapers as well as institution website. The institution participates in educational fairs, technical exhibitions, programs in electronic media and uses such other opportunities for propagation of institutional achievements as well as programs.

Transparency

The admissions are done as per the norms of Government of Karnataka and AICTE. All admissions are approved by the Government of Karnataka and VTU as shown in the Table 1.5.

2.1.2 Explain in detail the criteria adopted and process of admission to various programmes of the institution.

Admission process for UG is through

Common Entrance Test conducted by Karnataka Examination Authority, a state agency for candidates who are domicile of Karnataka for seven years or more.

- 1) Consortium of Medical, Engineering and Dental of Karnataka a state level entrance examination managed by COMEDK, UGIT.
- 2) Admission through management quota
- 3) PIO/NRI quota

The above admissions are purely based on merit and as per reservation norms laid down by the Government of Karnataka. The minimum percentage of marks in PCM is 45% under GM and 40% under SC/ST and OBC.

Admission process for PG

The admission process for PG programs is followed as per the Government of Karnataka/AICTE norms with GATE qualified or through PGCET conducted by KEA.

Admission to PhD

Admission to PhD is through common entrance test conducted by VTU. Successful candidates are called for interview for selection.

The admission for UG is shown in Table 2.1

Table 2.1 Admission summary

Year	Approved Intake	CET 45%	COMEDK 30%	MGMT 25%	SNQ 5%	PIO 15%	TOTAL
I Year							
2016-17	1170	385	170	276	49	72	954
2015-16	1170	406	210	248	57	94	1015
2014-15	1170	526	351	300	58	175	1403

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city / district.

Table 2.2 shows the cut off ranks for under graduate and post graduate course in CET quota. Table 2.3 shows the general category rank comparison with neighboring institutions a) CET 2014-15 b) CET 2015-16 c) CET 2016-17.

Table 2.2 CET cut-off rank for general merit

Under Graduate Programs								
Branch	2016-17		2015-16		2014-15		2013-14	
	Start	End	Start	Start	Start	End	Start	End
AE	11088	11479	6953	18311	4300	19848	13349	32124
AU	26004	39250	16161	83798	5843	36589	24189	30094
BT	19087	23159	18103	21560	14669	28011	17784	48469
CV	24102	27768	15198	28579	8441	25850 G55	18113	37695
CSE	10466	17039	7717	26220	6294	20251	13402	20741
CTM	76612	112394	33921	16419	28263	70984	45555	60045
ECE	10314	15663	7795	19681	4272	19122	9885	14186
EEE	14853	24370	14333	28381	11486	27142	16893	24852
ISE	14021	20331	11194	57352	8787	79943	17188	25697
MSE	40236	91371	50962	127225	32977	117016	44886	91688
ME	17849	24992	6692	24668	10892	21823	13456	17192
MT	20313	34785	6021	79505	11454	67887	18754	36077
MIN	54013	82777	66702	124388	22183	123075	60496	90417
Post Graduate Programs								
M. Tech BT			4113	4113	5099	12516	11651	19653
M. Tech CSE	6087	12569	4606	11920	3506	19995	1329	9243
M. Tech CNE			5938	12980	5376	13242	1246	8184
M. Tech DCE	6129	12852	3516	11015	4426	10908	627	11640
M. Tech FS	5996	5996	5320	8702	8892	19349		
M. Tech MD	10826	12789	5100	13880	1054	11981	2469	11068

M. Tech PDM	6466	13861	7213	13677	4489	17324	2889	16693
M. Tech PS	6255	10361	3160	12820	3361	20411	3246	11969
Branch	2016-17		2015-16		2014-15		2013-14	
	Start	End	Start	Start	Start	End	Start	End
MBA	2026	16937	28	11547	162	9158	161	4842
MCA	2824	5279	353	4236	592	4397	232	4484

Table 2.3 Comparison of cut off ranks with other colleges for Bachelor of Engineering

a) General category 2014-15

E079 Acharya Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
AE Aeronaut.Engg	34282	--	--	28999	--	--	44584	--	--	14308	--	--	15762	--	--	12445	--	23753	22158	--	--	--	--	50828
AU Automobile	--	--	--	36327	--	53705	43491	--	--	28099	--	53407	35031	--	--	26226	32288	50558	48080	--	--	37699	--	--
BT Bio Technology	51554	--	--	38539	--	--	--	--	--	--	--	--	--	--	--	21464	91817	56822	62116	--	--	76991	--	--
CE Civil	26230	29898	--	28995	--	34636	61487	--	--	24314	--	34647	25874	--	28377	20636	23230	23713	44104	--	50778	21184	--	--
CS Computers	26686	--	--	35163	56473	--	27954	--	61733	29121	--	--	16869	--	52960	14673	18280	22538	59672	--	87755	30185	--	--
CT Const. Tech. Mgmt.	--	--	--	90946	--	--	74668	--	--	75022	--	--	--	--	--	73236	--	--	--	--	--	--	--	--
EC Electronics	13061	--	19928	20639	--	21045	13009	--	75902	13638	20276	--	14808	--	--	11061	17984	19122	37645	--	68464	31994	--	--
EE Electrical	38116	--	--	29869	--	32105	38575	--	--	22902	--	42856	20441	44558	--	19232	22636	24692	85400	--	--	22953	--	--
IE Info.Science	38130	--	--	39990	--	69949	44713	--	--	24645	--	--	31509	--	--	20038	22125	26674	73888	--	--	38411	--	--
ME Mechanical	25490	--	31705	22350	25210	30952	21054	--	--	17434	--	--	20986	--	23942	16577	17307	21823	47159	80516	62155	28311	--	--
MN Mining	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93414	--	--	--	--	--	--	--	--
MS Manufacturing Sc. Engg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95661	--	--	--	--	--	--	--	--
MT Mechatronics	27273	--	--	38749	--	--	41444	--	--	31582	--	--	37458	--	--	21512	67887	59641	72403	--	--	--	--	--

E108 Saptagiri College of Engineering. Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
BT Bio Technology	78376	--	--	78435	--	--	82922	--	--	66967	--	--	--	--	--	51215	89854	77674	72673	--	--	66210	--	--
CE Civil	44117	--	--	31378	--	--	60831	--	--	25923	--	--	30362	--	--	25818	--	44412	77060	--	--	--	--	59874
CS Computers	17030	--	--	21628	--	48436	18926	--	--	15722	--	--	14277	37877	39663	12676	30158	30546	72243	--	78767	54204	--	--
EC Electronics	63305	72652	--	21407	--	65934	33807	--	--	20855	--	23453	13470	--	--	12245	17653	21006	51425	--	--	21965	--	--
EE Electrical	24117	--	--	37193	60275	63474	56712	--	--	24570	--	54027	26522	--	--	23012	32414	39743	82105	--	--	28602	--	--
IE Info.Science	22584	--	59375	24279	35045	48465	52209	--	--	21745	--	--	33423	--	42615	21275	27030	28877	94259	--	--	--	--	--
ME Mechanical	33291	--	--	23553	--	40332	57062	--	--	29441	--	--	20697	--	--	19741	35599	28251	58617	--	79727	37934	--	--

E112 Sri Krishna Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
CE Civil	74755	--	--	76748	--	--	74736	--	--	74604	--	--	81604	--	--	72371	86288	91707	93830	--	--	79964	--	--
CS Computers	51641	--	--	75556	--	89671	57716	--	--	55858	--	--	63580	--	--	48956	72905	59800	87915	--	--	95123	--	--
EC Electronics	--	--	--	83102	--	--	--	--	--	71155	--	--	72429	--	--	68783	74931	82790	91220	--	--	--	--	--
EE Electrical	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93930	--	--	--	--	--	--	--	--
IE Info.Science	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	91954	--	--	--	--	--	--	--	--
MD Med.Elect.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95363	--	--	--	--	--	--	--	--
ME Mechanical	72648	--	--	90274	--	--	70468	--	--	--	--	--	62450	--	--	54477	82007	86223	88345	--	--	93377	--	--

b) General category 2015-16

E079 Acharya Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
AE Aeronaut.Engg	11532	--	--	16005	--	--	11473	14803	--	13968	--	--	11702	--	--	10189	--	14253	25933	--	--	--	--	18385
AU Automobile	33116	--	--	29332	--	68467	33857	--	--	30662	--	43919	26194	--	--	25121	34628	28385	73233	--	--	--	--	--
BT Bio Technology	--	--	--	20166	--	--	43431	--	--	21237	--	--	--	--	--	19176	31726	24383	51836	--	--	65464	--	81023
CE Civil	22266	28428	--	25430	--	29613	27167	--	--	21089	--	26304	22039	--	25555	20751	22083	24906	42747	--	44776	29234	--	--
CS Computers	12391	--	--	17997	20003	18344	12623	--	42556	11141	--	--	11793	--	18974	10778	17083	18018	46705	--	66058	24396	--	--
CT Const. Tech. Mgmt.	92889	--	--	58449	--	99396	79181	--	--	48915	--	--	48433	--	--	47841	--	72420	104867	--	--	89682	--	--
EC Electronics	10757	--	30781	14942	--	17835	11195	--	44563	10086	22045	--	11284	--	--	9716	10372	15658	39110	--	54519	16489	--	--
EE Electrical	24063	--	--	21885	--	28750	29015	--	--	18645	--	26719	20548	26600	--	17528	18524	25289	65032	--	85224	28650	--	--
IE Info.Science	31263	--	--	22061	--	24983	30621	--	66761	14535	--	--	16244	--	--	13739	21738	23548	74047	--	--	48300	--	--
ME Mechanical	22589	--	27058	22346	26945	25392	19758	--	--	16229	--	--	16149	--	20111	14874	19155	18528	46121	61704	55535	23093	--	--
MN Mining	102804	--	--	106064	--	--	100287	--	--	92075	--	--	98565	--	--	88744	92012	106866	109369	--	--	92070	--	--
MS Manufacturing Sc. Engg	--	--	--	107137	--	--	94139	--	--	90202	--	--	100162	--	--	88040	88092	89166	92812	--	--	--	--	--
MT Mechatronics	38452	--	--	28923	--	91650	30802	--	--	24525	--	--	29256	--	--	22057	46475	54861	99483	--	--	--	--	--

E108 Saptagiri College of Engineering. Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
BT Bio Technology	43604	--	--	39756	--	83037	57127	--	--	36543	--	--	--	--	--	36245	56316	56855	76681	--	--	57694	--	--
CE Civil	34563	--	--	31870	--	--	34666	39848	--	28270	--	--	29860	--	--	27716	--	28695	57870	--	70803	--	--	75287
CS Computers	16277	--	--	20150	--	24920	22459	--	31247	12552	--	--	15066	26372	33330	11789	24600	24295	72755	--	--	31418	--	--
EC Electronics	16988	78634	33767	17229	--	21109	19659	--	--	14108	--	23165	14100	--	--	12255	24544	21108	59415	--	74321	29474	--	--
EE Electrical	28293	--	--	29242	61277	61355	47925	--	--	28490	--	42185	30906	--	--	27983	29921	40028	88842	--	90717	58331	--	--
IE Info.Science	21186	--	40672	26173	61265	42407	32736	--	--	18278	--	--	21898	--	34513	17594	32235	34219	110825	--	--	68462	--	--
ME Mechanical	30548	--	--	26928	--	35228	35635	--	65658	21114	--	--	20691	--	--	19953	36039	33132	67604	70856	91874	41730	--	--

E112 Sri Krishna Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
CE Civil	90632	92904	--	75047	--	93023	84722	--	--	63675	--	--	65770	--	85024	62573	72554	66663	105551	--	108039	87260	--	--
CS Computers	49286	--	--	49617	--	78311	49578	--	--	41079	--	56760	46490	71114	--	40416	47793	51356	109732	--	--	91382	--	--
EC Electronics	83099	--	--	64592	67521	--	87202	--	--	46817	--	--	46701	--	95134	46044	64056	70689	100347	--	--	68244	--	--
EE Electrical	110035	--	--	89201	--	--	91842	--	--	79824	--	--	80398	--	--	76717	111530	101195	--	--	--	--	--	--
IE Info.Science	77407	--	--	71140	--	--	75372	--	--	59096	--	--	74326	--	--	58243	--	94619	--	--	--	--	--	--
MD Med.Elect.	--	--	--	82254	--	--	--	--	--	77753	--	--	--	--	--	60952	99842	94636	94605	--	--	109684	--	--
ME Mechanical	86876	--	--	75216	--	97158	75624	--	--	67365	--	--	68391	--	--	66821	74138	79893	98420	--	--	70837	--	--

E172 R.R.Institute of Technology Chikkabanavara, Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
CE Civil	102635	--	--	102914	--	--	100285	--	--	88204	--	--	89909	--	107814	87960	89606	100345	112337	--	--	90574	--	--
CS Computers	95054	--	--	80288	--	97083	69354	--	--	70626	--	--	69181	--	--	69120	--	85949	99341	--	--	--	--	--
EC Electronics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	111534	--	--	--	--	--	--	--	--
EE Electrical	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	111589	--	--	--	--	--	--	--	--
IE Info.Science	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	111724	--	--	--	--	--	--	--	--
ME Mechanical	104443	--	--	111927	--	--	109142	--	--	97097	--	--	102931	103371	--	95171	96315	105096	109238	--	--	110388	--	--

c) General category 2016 -17

E079 Acharya Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
AE Aeronaut.Engg	12238	--	--	15083	--	--	14763	--	--	14340	24413	16837	12732	--	--	11088	--	11479	22185	--	--	--	--	15750
AU Automobile	30930	--	--	40352	--	43713	35753	--	62591	29925	--	--	32875	--	--	26004	39250	35080	63661	--	--	--	--	--
BT Bio Technology	29154	--	--	18318	--	--	--	--	--	--	--	--	--	--	--	14853	31596	24370	46718	--	--	33662	--	109311
CE Civil	26455	--	32107	26822	--	35966	29269	49151	--	25153	--	--	24322	--	--	24102	25162	27768	39481	--	49641	30258	--	--
CS Computers	10787	--	--	15580	19552	20430	12735	--	--	10773	--	17517	11507	--	17903	10466	12193	17039	40164	52738	56514	24900	--	--
CT Const. Tech. Mgmt.	89360	--	--	55206	--	111365	55476	--	--	45016	--	--	45674	--	--	40236	91371	69482	106205	--	--	--	--	--
EC Electronics	18053	34246	--	14981	--	20574	14325	--	--	11112	--	18585	10601	--	--	10314	11259	15663	40807	--	47842	17734	--	--
EE Electrical	20119	--	--	26175	--	29324	30426	--	63253	20058	--	--	21361	--	27071	19087	26538	23159	50742	--	61634	25483	39565	--
IE Info.Science	26322	--	--	20264	--	24271	23475	--	39141	14093	--	--	15112	26612	--	14021	23367	20331	60023	--	84081	32505	--	--
ME Mechanical	24565	--	31254	23255	31541	27009	25526	--	--	17981	--	--	20473	--	26281	17849	22927	24992	45758	66925	58386	27610	--	--
MN Mining	113793	--	--	94742	120254	--	78699	--	--	77061	--	--	88565	--	--	76612	93137	112394	125839	--	--	86967	--	--
MS Manufacturing Sc. Engg	--	--	--	76327	--	--	83539	--	--	57279	--	--	65714	--	--	54013	--	82777	115480	--	--	57191	--	--
MT Mechatronics	39965	--	--	25926	--	59092	45794	--	--	21979	--	--	21799	--	--	20313	48053	34785	69069	--	--	83705	--	--

E108 Saptagiri College of Engineering. Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
BT Bio Technology	42500	--	--	41755	--	--	37132	70299	--	28122	--	39301	41099	--	--	23980	--	33091	63602	--	--	--	--	110709
CE Civil	31317	--	--	32773	--	42335	34486	--	--	30337	--	--	--	--	--	29170	31219	32730	72101	--	82833	29601	--	--
CS Computers	18520	58685	--	18027	--	25037	17626	--	--	13182	--	19922	14260	--	--	11706	29620	19415	70253	--	124811	33915	--	--
EC Electronics	14408	--	--	19497	--	25567	22070	--	62391	14593	--	--	15932	31036	30298	13934	30349	23880	52143	--	85807	36750	--	--
EE Electrical	30356	--	--	35988	58326	51040	40442	--	--	26957	--	--	29038	--	--	25622	38038	40786	78498	--	119700	35567	--	--
IE Info.Science	21500	--	58075	25137	46579	34685	33008	--	--	17521	--	--	18164	--	33738	16445	30820	27492	93351	--	--	41666	--	--
ME Mechanical	38714	--	73859	30133	--	38681	33550	--	--	24885	--	--	24969	--	--	24532	37071	38175	75747	116477	86373	47075	--	--

E112 Sri Krishna Institute of Technology Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
CE Civil	75433	105755	--	88073	--	95305	82627	--	--	76427	--	--	77899	--	92958	71884	89640	83561	107807	--	118922	89006	--	--
CS Computers	51235	--	--	52256	--	--	48475	--	--	37892	--	67410	42292	90890	--	37345	45094	65784	113628	--	126236	105107	--	--
EC Electronics	72636	--	121322	77080	87736	89630	90151	--	--	50927	--	--	51772	--	110970	49241	85755	74902	124344	--	--	105227	--	--
EE Electrical	89673	--	--	96925	--	--	101665	--	--	70005	--	--	75493	--	--	69400	98849	99953	123912	--	--	102022	--	--
IE Info.Science	--	--	--	58601	--	--	59717	--	--	51440	--	--	56939	--	--	51315	--	79195	121557	--	--	107454	--	--
ME Mechanical	78320	--	--	95618	--	104269	93176	--	--	77504	--	105811	83202	--	--	76737	101429	101989	127146	--	--	93364	--	--

E172 R.R.Institute of Technology Chikkabanavara, Bangalore

	1G	1K	1R	2AG	2AK	2AR	2BG	2BK	2BR	3AG	3AK	3AR	3BG	3BK	3BR	GM	GMK	GMR	SCG	SCK	SCR	STG	STK	STR
CE Civil	93214	101969	--	108565	--	124982	98623	--	126713	95627	--	--	95358	--	113946	92871	95203	109031	117715	--	127095	100978	--	--
CS Computers	74128	--	--	68969	--	--	60347	125063	--	55730	--	--	57484	93721	--	53763	74320	92896	112830	--	--	56104	--	--
EC Electronics	103816	--	--	106223	114351	--	104253	--	--	97281	--	--	101410	--	--	97047	105888	119390	121545	--	--	99404	--	--
EE Electrical	114592	--	--	116131	--	--	113188	--	--	110793	--	--	110410	--	--	108492	--	--	--	--	--	--	--	--
IE Info.Science	102153	--	--	78948	--	--	70789	--	--	69762	--	--	78439	--	--	69184	--	101359	89205	--	--	119867	--	--
ME Mechanical	105791	--	--	113911	--	--	101283	--	--	101857	--	--	106972	--	--	100831	125632	127317	118858	--	--	123731	--	--

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

The admission section prepares a cutoff rank list for every program, to keep track of the popularity of a given programme. The same is discussed in the Academic Council Meetings, Governing Council Meeting, and Alumni Meet. This enables the institution to take relevant decisions so as to attract better ranking students. The decisions include:

- 1) Trainings to enhance employability of students
- 2) Industry – Institute Interaction
- 3) Exchange programs with foreign universities
- 4) Concessions to sports persons
- 5) Participation in project competitions, paper presentations
- 6) Improved alumni interaction

Outcome: Year by year we are able to attract better ranking students that has resulted in improvement/increase in the pass percentage in the final examinations.

2.1.5 Reflecting on the strategies adopted to increase / improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate / reflect the National commitment to diversity and inclusion.

Table: 2.4 Strategies adopted to improve access by different categories of students

Category	% of Admissions-CET quota	Facilities Provided	
		Government	Acharya Institutes
SC	6	Tuition Fee will be sanctioned by Social Welfare Dept.	Separate Book Bank facility.
ST	2		
OBC	17	Part of Tuition fee will be sanctioned by BCM Office	
Women	22	There is no special quota for girl students.	Women Cell takes special care of girl students.

Category	% of Admissions-CET quota	Facilities Provided	
		Government	Acharya Institutes
Differently abled		As per Govt. norms	Exemption of fees depending on the need is given by the management. Merit scholarships are provided to students by J.M.J. Education Society.
Economically Weaker Section	5	Offers courses at reduced fee	
		As per CET quota and management	Management quota
PIO	10	As per the government norms	

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e., reasons for increase / decrease and actions initiated for improvement.

Table 2.5 (a) Under graduate admission details – Management quota

Branch	2013-2014		2014-2015		2015-2016		2016-2017	
	Number of applications	Number of students admitted	Number of applications	Number of students admitted	Number of applications	Number of students admitted	Number of applications	Number of students admitted
AE	54	30	35	27	30	16	42	20
AU	20	13	28	14	26	15	23	19
BT	20	17	22	15	18	12	15	13
CV	30	24	35	25	38	23	32	24
CSE	75	55	68	53	62	34	52	34
CTM	12	9	18	10	9	5	2	0
ECE	35	30	30	26	32	27	45	33
EEE	35	16	39	15	28	17	30	19
ISE	55	30	52	31	38	25	46	31
ME	55	32	48	31	51	30	48	32
MS	10	5	15	6	8	2	8	2
MT	30	23	36	22	15	08	38	24
MI	60	35	45	30	42	34	36	27

Table 2.5 (b) Post graduate admission details –Management quota

Branch	2013-2014		2014-2015		2015-2016		2016-2017	
	Number of applications	Number of students admitted	Number of applications	Number of students admitted	Number of applications	Number of students admitted	Number of applications	Number of students admitted
M.Tech								
BT	6	3	5	3	4	3	3	1
CSE	10	4	8	5	3	1	2	0
DCE	7	4	2	1	1	1	0	0
DCN	6	5	8	4	2	1	3	1
FS	5	3	6	3	2	1	0	0
MMD	5	2	3	1				
PDM	2	0	1	1	0	0	0	0
PS	5	3	6	3	4	2	2	1
MBA	102	74	93	73	56	34	52	33
MCA	78	50	72	45	43	22	37	21

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

A certain percentage of reservation is made by the government in the admission process. Scholarship is offered for differently abled students depending on their financial condition. Extra time is provided during the regular practical laboratory and internal assessment test upon prior permission. Extra time of 60 minutes is also provided during university examinations; also for convenience special arrangements are made on the ground floor to write university examinations. If requested ambulance facility and helper are provided to physically disabled students for mobility in the campus. Scribe facility is provided for differently abled students on request with prior permission of the university. All blocks of the institute are located close-by with good road facility for easy access to classrooms, laboratories and library. Wheelchair, residential doctor and social assistance as and when required is provided on campus. Special assistance and services including additional borrowing facilities is provided by the library staff.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If yes, give details on the process.

Yes

The institution assesses the students' needs in terms of knowledge and skills before the commencement of the programme. The process is:

- 1) Academic records of the students in the qualifying examinations and entrance tests are the first hand are assessed to verify the preparedness of the students for the programs they have enrolled.
- 2) Profiling of students with respect to their knowledge, dreams and aspirations is conducted with the help of private training partners.
- 3) Aptitude tests are conducted for assessing the students' knowledge at the beginning of the program.
- 4) In addition, the institution organizes bridge courses, orientation programs for the new comers. The Mentors and head of the department interact with each student to identify their skills and based on these interactions, students with slow learning capabilities are identified and special emphasis is given for such students to improve their knowledge and skills. Also the students who lack English language are identified during this interaction and guidance is provided for language learning facility on campus.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

To bridge the knowledge gap of students and enabling them to cope with the programme the following activities are provided by the institution

- 1) Remedial coaching classes are conducted for all the subjects by the faculty members concerned for poor performers.
- 2) Bridge course in mathematics is conducted for lateral entry students every semester.
- 3) Enrichment courses like soft skill training, workshops, seminars, guest lectures and study tours organized by the institution.
- 4) The students who lack English language skills are identified and English language training is offered for such students.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

- 1) The campus is multi-lingual, multi-religious, multi-national, multi-ethnic institution. Institute promises equal opportunities irrespective of caste, creed, religion, language, gender, ethnicity or citizenship. The institute strongly ensures equality with equal opportunity under its zero tolerance policy.

- 2) The Institute provides equal opportunity and rights for all staff and the students in all the activities which include teaching, placement, co-curricular and extra-curricular activities. The students are encouraged to participate in various co-curricular activities such as paper presentations, workshop, group discussions, technical quiz programmes, etc. Students are members of different professional societies, co-curricular and extra-curricular committees which promotes gender equality among all.
- 3) The institution has set up a women cell to cater to the problems and issues related to girl students and women staff. The Women's day is celebrated by teachers and students. Guests are invited to deliver talk on current gender and socially relevant issues.

Objectives of Women's cell

1. Committed to fulfill the Institution Vision.
2. To sensitize about women safety and gender equality.
3. To provide a platform for women to express their grievance/seek redressal in the work life

Objectives of Nature Watch

- 1) To help social groups and individuals to acquire a values for environmental protection.
- 2) To provide social groups and individuals with an opportunity to be actively involved at all levels in environmental decision making.

National Service Scheme

The National Service Scheme unit of the institution organizes clean and green programs in the campus and nearby villages. It seeks the assistance of general public in tree plantation and keeping their surroundings clean and green. The students are also involved in social service activities like clean and green programme, plantation, health checkup camps and computer literacy programme for village students, blood donation camps. NSS camps are also held adopting nearby village to inculcate the environmental related issues and keeping the surroundings clean, use of clean drinking water, etc.,

The institute has an anti-ragging committee to ensure zero ragging campus.

Objectives of anti-ragging committee

In view of the directions of the hon'ble supreme court in SLP No. 24295 of 2006 dated 16-05-2007 and in civil appeal number 887 of 2009, dated 08-05-2009 to

prohibit, prevent and eliminate the scourge of ragging including any conduct by any students or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in all higher education institutions in the country, and thereby, to provide for the healthy development, physically and psychologically, of all students, the All India Council for Technical Education (AICTE) brings for these regulations.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

- 1) Advanced learners are identified through their performance in tests, interaction in class room and laboratory, on the basis of their fundamental knowledge, concept understanding and articulation abilities etc.
- 2) Ample opportunities have been provided for self-learning. Special assignments in advance topics are given to the students which helps them to come out with new ideas.
- 3) Students with research interest are provided opportunity to work with faculty on research projects.
- 4) Students are encouraged to present papers in conferences and also publish papers in journals for which, the registration fees are sponsored by the institution.
- 5) Interested students are encouraged to participate in innovative project exhibition, which helps them to come out with new ideas, design and product realization.
- 6) Students are also encouraged to take up competitive examinations. Extra coaching classes for GATE, GRE, TOEFL, IELTS are provided.
- 7) Extra books are issued for advanced learners from the library. Books for competitive examination such as GRE, GATE, CAT, GMAT, IELTS, TOEFL, UPSC civil services examinations are also procured / provided for reference.
- 8) The students are encouraged to access journals and e-journals in the library.
- 9) Academic toppers, best outgoing student from each department and valedictorian are facilitated during graduation day.

- 10) Students are encouraged to take up internships during their semester holidays. The references are given for various companies. Internship at foreign universities are also under taken.

Students are encouraged to take up online courses like robotic vision from Queensland university Australia, Coursera , NCFM, Stanford university etc., Such students are selected and offered student exchange programs with foreign universities like Old Dominion University, University of Applied Science Lubeck, Germany, Carleton University, Canada, Florida University and others.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- 1) Academic performance of the students is collected on announcement of the semester results by the university.
- 2) The institution has implemented a mentoring system to monitor the student performance on continued basis. For about twenty students one faculty member is assigned as the mentor. Mentoring records are maintained and updated periodically. If a student does not attend classes regularly, the mentor looks into the reasons for the absence. The mentor concerned interacts with his or her parents and tries to convince them to give proper support to their wards. This is done through phone call, letters and teacher parent meetings in the institution to discuss the problems/issues.
- 3) Fees concession is given to the economically weaker students to pursue their studies.
- 4) The institution has constituted a student welfare cell headed by Dean-Student affairs to counsel and mentor the students in academic and non-academic matters.
- 5) For slow learners remedial classes are organized regularly and are provided with sample papers and solved previous year question papers.
- 6) Apart from the mentor informing the parents about their ward performance, monthly reports are sent to all parents through SMS gateway.
- 7) Lateral entry students are provided with crash courses in mathematics and additional training.
- 8) AIPS- Acharya Institute Proctorial System- An e-portal developed in-house aids all the records of the students, communications and performance details on hand.
- 9) The dropouts are minimal as the institute makes concrete efforts through counseling at different levels and confidence building by the faculty, head of the department, chief proctor and the principal.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.).

The academic year usually starts in the month of August every year, before which VTU, Belagavi circulates the academic calendar to all the affiliated institutions. The academic calendar of VTU would be placed before the academic council of AIT, to devise the academic calendar for AIT. This will cover details of all academic, curricular, co-curricular, and cultural, sports and internal assessment. The course file which includes all the TLP entities (syllabus, prerequisites for the course, course objectives and outcomes, lesson plan, course material, assignment etc.,) essential for students and faculty is prepared well in advance and is brought to the notice of the students through email, discussion in the classroom.

2.3.2 How does IQAC contribute to improve the teaching-learning process?

The objective of IQAC is to ensure quality in the TLP. This involves planning, monitoring and evaluation of curricular goals. The IQAC involves in designing various feedback forms, survey forms to collect inputs on curriculum, attainment of outcomes etc., in strengthening the TLP. IQAC schedules and conducts academic audits to monitor the TLP across the programs periodically as maintained in academic calendar.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Learning at Acharya Institute of Technology is student-centric. Teachers give the students ample opportunities and scope for interactive learning, collaborative learning and independent learning. The lesson plans, course material, laboratory manuals and often study materials are made available to the students. Students are also given assignments and mini projects. Some of the support structures and systems available for teachers to develop and promote learning skills among students are as follows:

- 1) Institute promotes self-learning with the help of MOOC cell. It has e-repository of video lectures from NPTEL, UDACITY, MIT-OCW, EDX and KHAN academy which can be accessed on local area network both by students and faculty.
- 2) Accesses to on-line journals from the library resources network are available to the students and faculty members on campus LAN and remote access.
- 3) Repository of seminar /project reports in the department library for the reference of students and faculty.

- 4) Internships conducted through in-house software development cell for students.
- 5) The institution is enabled by its academic alliances with many leading organizations as given in the Table 1.1 MOUs with universities.
- 6) All the departments have student's forum which organize various technical events that helps students in molding their personality.

Table 2.6 Department forums

Name of the department	Forum Name
Aeronautical Engineering	Udaan
Automobile Engineering	Cruze
Bio Technology	Bio-Infinity
Civil Engineering	Srujan
Computer Science and Engineering	Lakshya
Construction Technology and Managment	Tecton
Electronics and Communication Engineering	Spectra
Electrical and Electronics Engineering	Elexso
Information Science and Engineering	Steigen
Mechanical Engineering and Manufacturing Science and Engineering	Fame
Mechatronics	Renaissance
Mining Engineering	Magnum
Master of Business Administration	Pragma
Master of Computer Applications	e-Disha

- 7) Departments organize alumni expert lecture series, which gives platform for students to interact and learn from their seniors.
- 8) Technical societies like ISTE, ASME, IEEE, IEL, CSI, ASAE and student chapters of national/international associations are active and students are encouraged to present technical papers at national/international conferences.
- 9) Institute supports students to take up projects. A few project teams are sponsored to participate at national/international exhibitions.
- 10) Experts from reputed Industries, R and D organizations are invited to the campus to share their expertise and provide a platform for student interaction.
- 11) Classrooms are furnished with LCD projectors. Wi-Fi is available throughout the campus for promotion of self-learning.
- 12) Institute has English language laboratory.
- 13) Library facilities are extended beyond working hours during examination.
- 14) Field and industrial visits are arranged.

- 15) Placement and training department has initiated pre-placement training for the students of all semesters to make them industry ready.
- 16) Group seminars, discussions, case studies and student presentations are held on regular basis.
- 17) The departments arrange for student visit to global and national technical exhibitions, trade shows.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

Institute organizes various events through associations and departments by inviting persons from industry and academia. This will comprehend the students to inculcate and nurture creativity and scientific temper.

Acharya-IBM Entrepreneur incubation center

AIT partnering with IBM have set up an Incubation Centre to provide an ambience for promoting entrepreneurship among the Acharya students and enable the budding entrepreneurs to launch their ventures successfully. AIT-IBM entrepreneur incubation center is a joint venture between IBM and AIT, for bringing together start-up entrepreneurs, investors and IBM's experienced mentors, who are focused to incubate their new venture for making the world better with innovative ideas. AIT-IBM incubation center is a part of IBM global entrepreneur initiative. It helps innovative entrepreneurs to build their businesses by leveraging through IBM software, technical enablement resources, mentoring, angel investors, patent rights, credibility and validation for their solutions.

Research Centers

Quality and impact of an academic institution considerably rests on the original research work the faculty and students successfully undertake. Academic research as part of learning, leads students to get a firm grounding on the thought processes, implementation methodologies and application of technologies to probe further into the chosen subject of study. AIT emphatically encourages this quest in the students' minds and has put up extensive academic and physical infrastructure for this purpose. AIT currently has 11 recognized research centers in the department of 1) Biotechnology 2) Computer Science and Engineering 3) Electrical and Electronics Engineering 4) Electronics and Communication Engineering 5) Information Science and Engineering 6) Mechanical Engineering 7) Chemistry 8) Mathematics 9) Physics 10) Business Administration 11) Computer Applications.

Intellectual Property Rights Cell

Intellectual property rights cell at Acharya Institute has been established in association with patent information centre under Karnataka State Council for Science and Technology, Bangalore. The centre functions as a nodal agency to provide intellectual property rights related services to innovators at AIT. Student projects prepared as part of graduate and postgraduate curriculum and doctoral research program have a large potential for IPR protection and this cell provides required guidance for registering the patents. One application is made for patent application.

Industry Institute Interaction Cell

Interface with industry is critical when it comes to penetrative learning of engineering streams. Over the years, AIT has built a robust and sustained relationship with blue-chip corporations and has derived benefits to its students in a number of ways. A few of the industries associated are given in the Table 1.2.

Box-AITBI

Acharya Technology Business Incubator has been established to provide support to Acharya students and alumni to set up their own business and become entrepreneurs.

The AITBI provides: i) Mentoring, ii) Technical assistance iii) Intellectual property management iv) Marketing expertise v) Financial/accounting services vi) Networking vii) Shared operational cost viii) Inexpensive workplace ix) Seed funding.

Acharya in-house Software development Cell

A strong in house software development cell is in pursuit of designing and deploying custom made software for various academic and administrative requirements of institution. Salient applications successfully deployed are shown in Table 2.7.

Table 2.7 In house software development

No.	Name of the Software	Purpose and Status
1	Acharya Institute Proctorial System	A web application to maintain data of all students by mentors. This application is updated constantly with new features and used across the campus for mentor record
2	Faculty Appraisal / Feedback System	An application that has been developed for faculty appraisal by student community a hassle free process
3	Monthly Achievement and Activities Reporting Software	All the departments upload the monthly activities of their respective departments online.

No.	Name of the Software	Purpose and Status
4	Annual Student Feedback System	Students can post their feedback on faculty.
5	Performance Based Appraisal System	An appraisal consist of (i) self (ii) TLP by IQAC (iii) by head of the department iv) by principal (v) by students.
6	Institution website	Periodically updated.

MOUs with Universities

AIT's constant endeavor to take its academics to higher level the MOUs for faculty exchange, student exchange and joint projects in place. The list of Universities having MOUs with AIT is given in the Table 1.1.

AESPL

A reasonable level of english proficiency is of paramount importance in the professional world. English is widely spoken international language for business, education, travel, technology and the media. The english language programmes offered at Acharya Educational Services Pvt. Ltd. are exclusively designed to make sure that the students not only acquire basic and technical english but also get to learn integrated professional skills required in IT / management sectors. Thus, the programmes, with their cutting-edge curriculum and methodology, will empower the learners to pursue global careers in english speaking countries.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- 1) Classes and laboratories are equipped with LCD projectors to enable the faculty to provide better teaching ambience resulting in effective learning.
- 2) The departments are provided with adequate number of computers with internet facility. This facility is used to access and download required information for effective teaching learning.
- 3) Faculty use e-learning resources from NPTEL, UDACITY, MIT-OCW, EDX and KHAN academy.
- 4) Faculty have access to online e-recourses at library.

- 5) VTU e-Learning recourses through EDUSAT programme series.
- 6) Spoken tutorial lectures are beamed to the students in collaboration with IIT, Bombay.
- 7) Hosting of technical webinars of Industries such as Infosys, Microsoft etc., to the students with prior intimation.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- 1) The Institute organizes expert lectures, seminars, conferences, workshops jointly with reputed industries, IITs, IISc. at regular intervals to expose students and faculty to advance level of knowledge and technology.
- 2) The institute deputed faculty for continuous learning programs, academic enhancement programs, conferences and workshops organized by other institutes and universities by providing financial assistance. The numbers of events held are 12, 18 and 13 respectively for the last three years.
- 3) The institute organizes programmes and competitions like debugging contest, C-programming contest and model making contests, to expose and motivate students towards beyond syllabus learning.
- 4) The institute organizes events through professional bodies in order to bring in awareness about advances in various technologies.
- 5) The institute provides research leave facility for the faculty to interact with guides/experts.
- 6) The institution provides outside world interaction for the faculty and students with eminent professors through its academic alliances with esteemed organizations.
- 7) The institution provides internships/projects opportunity for the faculty and students with industry experts through its MOUs with a number of industries.
- 8) The institute provides opportunities for both students and faculty to attend exhibition at Bangalore International Exhibition Centre (BIEC).
- 9) Faculty is encouraged to share recent developments in different fields with the students.

2.3.7 Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/ academic advise) provided to students?

The institution strives continually to identify the students requiring special support and guidance on academic, personal and psycho-social problems. Such requirements are address with care through innovative practices.

The institution has mentor system in place to continuously monitor and assess progress and performance of students. The mentoring system consists of:

Chief Mentor: Chief Mentor is responsible for Mentor system in the institution. He interacts with deputy chief mentors, heads of the department and mentors, prepares consolidated report and submits to Principal for needful action every semester.

Deputy Chief Mentor: A senior faculty of each department is assigned responsibility of Deputy Chief Mentor. DCM is responsible for monitoring academic social behavior related matters of students at department level and is responsible for maintaining AIPS at the department level.

Mentor: Each faculty will act as a mentor for a batch of around 20 students. Students will be counseled at regular intervals regarding their personal and academic matters. Students are free to contact the mentor during the scheduled time or any other time with mutual consent.

- 1) The Mentors are responsible to
 - a) Constantly check the attendance and wellbeing of students throughout their study and advise accordingly.
 - b) Identify the academic and personal problems of his/her wards and document the same.
 - c) Records the progress made by students in AIPS.
 - d) Counseling the wards for choosing electives offered by the department.
 - e) Encourage his/her wards to participate in both curricular and extra-curricular activities.
 - f) Constantly be in touch with parents/guardian informing them about the progress of their ward.
- 2) The Department of Training and Placement counsels the students about the current industry scenario and skill set expected from the corporate world. It also undertakes the training programs to indicate the skill sets.
- 3) Through National Service Scheme a number of students are made aware of social ethics, societal responsibilities and respect towards other gender and elders for overall personality development.
- 4) HODs counsel the students and advise them from time to time about career, competitive examinations and other activities.
- 5) Institution has appointed a faculty for Psycho-Socio counseling services.
- 6 A senior faculty is assigned with the responsibility of Dean-Student Affairs, who addresses the grievances of the students at the institute level.

- 7) The anti-ragging committee ensures ragging free campus.
- 8) The Institute has a separate wing to guide the students for higher studies through Acharya Educational Services.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning? Innovative teaching approaches/methods

To make teaching learning process effective, easier and more meaningful, the institution has been practicing innovative teaching techniques. Conventional teaching has been made more effective by using the ICTs. Using PPTs, online demonstration, video clippings, online site links, group discussions, case studies, role plays etc., have helped substantially the students towards participatory learning and acquainting themselves with new innovative teaching learning process.

1) Efforts by the faculty

- a) Faculty makes use of models, graphs, power point presentation to present the content in the syllabus.
- b) Faculty prepares well-structured lesson plans for the subjects allotted which are made available to the students at the stating of the semester.
- c) Faculty provides collaborative learning and active learning environment.
- d) Projects are carried out to understand the fundamental design printout, criteria and specification and under the constraints.
- e) Interface between the institution, industry and academia encouraged.
- f) The blooms taxonomy is applied in lesson planning and delivery.
- g) The projects undertaken help in group learning.
- h) Organizing competitions for students such as lecture contests, quiz, debate, group discussion, debugging, idea presentation, model making, etc.
- i) Assignments are prepared by the faculty in all the subjects and students are asked to prepare the solutions.

2) Efforts made by the institution

- a) Institute deutes the faculty for skill up gradation programs like Mission 10X, Infosys Campus Connect program, sabbatical to industry/universities abroad.
- b) Institute makes arrangement to telecast special webinars on the related topics.
- c) Teachers are deputed with financial support for attending workshops/ conferences/ faculty development programs.

3) Impact on students

- a) Improved student understanding in domain knowledge and overall development.
- b) Reduce backlogs and detention.
- c) Improved quality of final year projects
- d) Improved examination results and ranks.
- e) Improved placements and opting for higher studies.
- f) Students exhibiting more confidence and high self esteem.

2.3.9 How are library resources used to augment the teaching-learning process?

The central library a knowledge centre which is well established. It has over 78,000 books and 109 journals 7 e-journal packages. It has a sitting capacity of 600 and digital library with 100 seats. The books are tagged with Radio Frequency Identification (RFID) service is provided. The services provided are - 1) Online public access catalogue 2) Reprographic service 3) Book reservation 4) Reference Service 5) Competitive Examinations and Career development books 6) Old question paper from university 7) Digital library- e-Books, e-Journals and e-Lectures Materials 8) Current content services 9) Student project resources 10) Institutional repository 11) Institutional material 12) Spoken English

To sensitize the students and orient them towards library resources, user training programs are organized by the library staff at the beginning of the academic year. The library maintains the information and provides alerts on new developments.

Instructional material/ lesson plans, learning resources, educational e links. Open course ware sources, e-books/journals, career information resources, competitive examinations, funding agency information accessible on different sites have been collected and links is provided on library website .

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes, elaborate on the challenges encountered and the institutional approaches to overcome these.

Acharya Institute of Technology normally doesn't face such a problem in completing the curriculum. This is mainly due to the meticulous planning of calendar of events and its implementation. The faculty members also engage extra classes to overcome the situation. For one to two courses per semester which are analytical in nature one extra hour lecture is provide in the time table.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

To monitor the quality of teaching and learning, the institute has evolved a mechanism to collect direct feedback from the students about the instructional methods, curriculum delivery and feedback from the stake holders, particularly more from industries and alumni. The IQAC cell on a continual basis monitors and audits the teaching learning process across all the departments. The audit consists of verification of course files, engagement of classes conduct and assessment of internal tests.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

The institution makes sincere efforts to recruit and retain best human resource to meet the academic delivery requirement. The faculty is also augmented with adjunct faculty having research/industrial back ground.

Recruitment Process

All appointments are through the process indicated below.

- 1) The department in advance gives the requirements to the principal.
- 2) The HR department advertises for the posts required.
- 3) The technical screening is held at department level by subjects experts with demo and interview. The short listed are recommended for the HR round of interview.
- 4) The HR interview is headed by the principal the invited experts HR and management representative constitutes the committee. The committee conducts the technical and HR interview.
- 5) The recommended candidates are hired by the HR department.
- 6) The senior faculty from academia and industry are offered directly to join AIT.

Retention Strategies

- 1) Institute offers monthly two day research leave for all the research scholars.
- 2) Institute honors best papers published by the faculty.
- 3) AICTE pay scales to all faculties along with statutory allowances have been extended.
- 4) Institute has adopted standard policies / norms for increments and promotions.
- 5) Institute has policies towards sponsoring faculty for higher studies.

- 6) Institute deputed faculty with financial assistance to attend National / International conferences, workshops, seminars, symposiums etc.,
- 7) For deserving candidates Institute, provides financial assistance for getting enrolled as members of professional bodies and societies and publishing papers.
- 8) Maternity / Paternity leaves are granted as per institution norms.
- 9) Financial assistance to take up MOOC program certifications.

Table 2.8 Details of faculty and qualifications as on 30th March 2017

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	22	2	7	1	8	4	44
PG			6	4	144	113	267

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details how are the members of the faculty selected?

To cope with the growing demand of specialist and qualified senior faculty, the institution invites / recruits retired academicians, R and D and persons with industrial experience. The existing faculty specialized in respective fields are also sent for advanced training and internship in emerging areas and their cognate subjects. Visiting / guest faculty are invited to handle a few specific modules / units of new programs / emerging areas. Also, special lectures are arranged inviting experts / technocrats / scientists from universities and institutions of higher learning and advanced research centers. However, a few instances having addressed such cases are detailed below. In the field of Biotechnology the faculties members with M. Sc in Biotechnology, M. Tech in Chemical Engineering have been recruited as faculty with Bio engineering background in engineering field were not available. Acharya Institute of Technology started UG course in Mechatronics for the first time in VTU and the faculty with Mechatronics background were not available. Hence the faculty from Mechanical Engineering and Electronics Engineering were recruited.

2.4.3 Providing details on staff development programmes during last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality

a) Table 2.9 shows the staff development programmes conducted.

Table 2.9 Staff development programs

Academic Staff Development Programmes	Number of Faculty nominated			
	2016-17	2015-16	2014-15	2013-14
Refresher courses			3	14
HRD programmes				
Orientation programmes	3	1	9	35
Staff training conducted by the University			12	43
Staff training conducted by Other University / other Institutions	5		30	46
Summer/winter schools, workshops etc			51	80
Any other (please Specify)				

b) Faculty Training Programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching – learning.

1) **Teaching Learning Methods/Approaches**

When e-boards were installed in the laboratory, training was given to all staff about the use of e- boards. Use of Model is encouraged and the entire faculty was trained by experts.

2) **Handling New Curriculum**

When new curriculum was introduced by the Visvesvaraya Technological University, Orientation Programme was conducted by the university.

3) **Content/Knowledge Management.**

Special guest lecture arranged by the management. Institute organizes several faculty development programmes, seminars, workshops, conferences in contemporary and novel areas to improve and update the knowledge of faculty members.

- 4) **Selection, Development and use of Enrichment Materials**
 - a. The Institute library has excellent stock of books suggested by University and every year additions are made depending upon the requirement of students.
 - b. The Institute library subscribes latest journals and magazines to enhance the knowledge of students. The Institute library has books which help the students to prepare for competitive examinations. Study materials of academic subjects are provided by faculty members to students.
- 5) **Assessment**
 - a. The institution has the practice of assessing the faculty. Performance Based Appraisal System (PBAS)
 - b. The Institute conducts 3 internal assessment (IA) examination for theory and 1 practical internal assessment to assess the knowledge of the students
- 6) **Cross Cutting Issues**

Several committees have been formed to discuss cross cutting issues. The committee has representation from faculty, students and also from industry.
- 7) **Audio Visual Aids/Multimedia**

The institution has separate Audio Visual room used for guest lecturers like seminar hall.
- 8) **Auditorium**

The Institute has a auditorium of seating capacity more than 500 students, which is used for conducting common work shop and general functions.
- 9) **OER's**

OERs are free and openly licensed educational materials that can be used for teaching, learning, research and other purposes. The students are provided with soft copy of notes and also printed notes.
- 10) **Teaching Learning Material Development, Selection and Use**

The institution provides all the above facilities to the faculty to improve teaching and learning. The institution encourages faculty to read and deliver the same to the students communities. Qualified and experienced faculty members are selected to improve the academic personality of the students.

11) **Any other (please specify)**

Institute has collaboration with leading global organizations such as Kennametal, Sasken Technologies, Moog India Technology Center etc., for providing training to faculty members in current areas.

c) Table 2.10 shows the percentage of faculty involved as resource persons, participation and presentation in workshops/seminars/conferences

Table 2.10 Participation of faculty in different programmes

Academic Assignments by Faculty	Percentage of Faculty
Invited as resource persons in Workshops / Seminars /Conferences organized by external professional agencies	11
Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	45
Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	52

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

The institute has developed HR policies and provision to meet the needs to academically recharge, rejuvenate teachers by providing leave, financial support etc. The teachers are encouraged to participate in research and development, publications of papers, attend seminar/conferences, workshops (in-house and by other institutions) and FDP. They are also encouraged to organize guest lectures, seminars/conferences and workshops.

Research leave for research scholars, sabbatical leave are provided to faculty in addition to common leaves. Rupees Ten thousand is paid to individual faculty every year to attend seminars/conferences, publish papers and workshops. On duty or special leave is provided to visit research laboratories.

The institution has industry collaborations and has signed memoranda of understanding with many leading companies to increase interaction with industry and has jointly organized programs with industries, Industry-Academic for expert interaction, which result in exchange of ideas and new technologies, updating the syllabus, fostering the faculty.

The institution has collaborated and signed MOUs with various National and International institutions which helps the students and faculty to have an international exposure in academia.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The Institution has a reputation of having highly talented professionals, who have laurels for their contribution in teaching and social service activities. Following are a few faculty members who have received honors / awards for their commitment and excellence in academics and research. Mr. Manish Kumar Thakur, Asst. Professor in the department of MCA was awarded best mentor award by IBM during 2014.

2.4.6 Has the institution introduced evaluation of teachers by the students and external peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Yes

Faculty members are evaluated by students, head of the department, principal and management. Online appraisal system is provided for students to assess the faculty members. Counseling will be provided by hods and principal for the faculty members whose appraisal by students is below par.

Teaching learning process auditing is done by IQAC twice in a semester and suggestions are given to faculty members to improve the teaching quality.

The weight ages of PBAS system currently in force are

- | | |
|------------------------------------|------------------|
| 1. Self-appraisal | : Weightage 40 % |
| 2. TLP | : Weightage 20 % |
| 3. Appraisal by Head of Department | : Weightage 10 % |
| 4. Appraisal by the principal | : Weightage 10 % |
| 5. Appraisal by Students | : Weightage 20 % |

If the PBAS score of a faculty is below 65%, they will be warned by the principal and management.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

Institution takes the following steps to ensure that both the students and the faculty become fully aware of the evaluation process:

- 1) HOD and DAC (Dept. Academic Committee) in the staff meeting, brief the Course Coordinators about the question paper setting, evaluation process, scheme of valuation and all are internally audited by the IQAC.
- 2) Students, once they join the institution they are made to undergo a compulsory orientation programme. During this program, the parents who accompany the students also get to know about the evaluation processes.
- 3) After joining the course, each student is also provided with the institute handbook and VTU syllabus copy. They are encouraged to read and understand the regulations/details of the evaluation process. Grading system and computation of students performance are explained with illustrations. Students are informed about the details of the total credits, number of hours of teaching and learning, its relation to the marks translation of marks into grading, grade point computation and overall grade Calculation.
- 4) Dean Examination ensures smooth conduction of Internal Assessment and university examination and is one point contact for any information on examination process vice versa
- 5) For higher semester students, the course coordinator briefs the evaluation process in class rooms.
- 6) Further information on the evaluation process to students is displayed on the university website (www.vtu.ac.in).

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The following salient features are highlights of the evaluation reforms outlined by the institution.

1. The CBCS process is introduced by the VTU in the year 2015-16. However, Institution is following the Blooms Taxonomy based education formats from the past 3 years successfully.
2. Question paper setting and scheme of evaluation is done by the course coordinator (Subject faculty)
3. The course files, outline of the lesson plan, course objective and outcomes are circulated to the students at the beginning of the semester.

4. Internal assessment regulations are adopted as per VTU norms.
5. The course objectives and course outcomes are formulated for the syllabus in Bloom's level of remember, understand, apply, analyze, evaluate and create breaking up the delivery into the knowledge categories namely: factual, conceptual, procedural, fundamental design principles, criteria and specific active practical constraints and design procedures.
6. In the semester of 3rd and 4th year the internal assessment examination is for 25 marks both for theory and practical examinations. Internal assessment marks for theory course are awarded considering average of best two of three internal assessment examinations. Continuous evaluation and a test constitute the internal assessment procedure for laboratory /drawings/workshops.

First and second years students in CBCS scheme the internal assessment carries 20 marks. In theory course the average of best of two of three internal assessment tests are awarded for a maximum of 15 marks while 05 marks are awarded for any of or combination of (i) assignment, (ii) seminars, (iii) quiz, (iv) mini projects, (v) review of papers, (vi) presentation in conferences and (vii) workshops. In laboratory/workshops the internal assessment marks constitute the continuous evaluation and a test at the end of the semester.

7. The internal assessments are conducted as per schedule notified by Dean (academics) in CoE. The squad randomly visits for a fair and transparent conduction of test.
8. The conduction of university examinations is supervised by Dean (examination) in coordination with HODs.
9. Parents are informed about the IA marks through CARE SMS after each internal assessment test and AIPS for maintaining the database of the wards.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The hierarchy of the internal assessment committee is shown in Fig 2.1. The Dean (examinations) issues the calendar of internal assessment tests. The test coordinator makes the allocation of space and announcement of test time table. The course coordinator sets the question paper along with the scheme as per guidelines given by the HOD. On completion of the test, the test coordinator verifies the blue books and hands them over to the course coordinator for evaluation. The department academic committee supervises the conduct of the test. A squad is constituted by the dean (examination) to ensure smooth and transparent conduct of internal assessment examination. The course coordinator evaluates the blue books and notifies the marks to the students. At the end of the semester the course coordinator uploads the marks and attendance on to AIPS through proctor .Poor performers are counseled and parents are asked to meet the class teachers for further needful action.

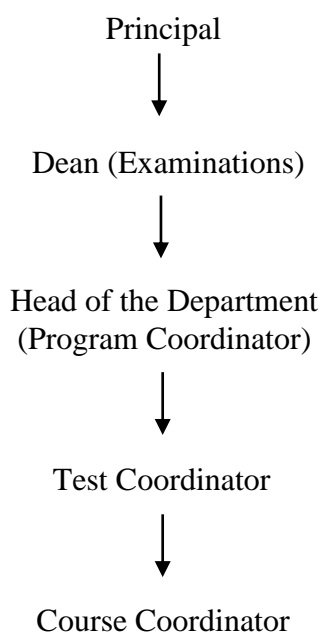


Fig.2.1: Hierarchy of internal assessment committee

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

Being an affiliating system the evaluation of the student is assessed in terms of internal assessment (formative) and semester end examination (summative).

Formative Assessment:

Even though there is no formal formative assessment as it is an affiliating system however the internal assessment tests indirectly reflect the formative assessment.

1. The CBCS process is introduced by the VTU in the year 2015-16. However, Institution is following the Blooms Taxonomy based education formats from the past 3 years successfully.
2. Question paper setting and scheme of evaluation is done by the course coordinator (Subject faculty)
3. The course files, outline of the lesson plan course objective and outcomes are circulated to the students at the beginning of the semester.
4. Internal assessment regulations are adopted as per VTU norms
5. The course objectives and course outcomes are formulated for the syllabus in Bloom's level of remember, understand, apply, analyze, evaluate and create breaking up the delivery into the knowledge categories, namely: factual, conceptual, procedural, fundamental design principles, criteria and specificative practical constraints and design procedures.

6. In the semester of 3rd and 4th year the internal assessment examination is for 25 marks both for theory and practical. For theory course the average of best two of three internal assessment tests are awarded. For laboratory /drawings/Workshops a continuous evaluation and a test constitute the internal assessment procedure. For the first and second years who are in CBCS scheme the internal assessment carries 20 marks. For theory course the average of best of two of three internal assessment tests are awarded for a maximum of 15 marks while 05 marks are awarded for any of or combination of (i) assignment, (ii) seminars, (iii) quiz, (iv) mini projects, (v) review of papers, (vi) presentation in conferences and (vii) workshops. For laboratory the internal assessment marks constitute the continuous evaluation and a test at the end of the semester.
7. The internal assessments are conducted as per schedule notified by Dean (academics). The squad randomly visits for a fair and transparent conduction of test.
8. The conduction of university examinations is supervised by Dean (examination) in coordination with HODs.
9. Parents informed about the IA marks through CARE SMS after each internal assessment test and Acharya Institutes Proctorial Software (AIPS) for maintaining the database of the wards.

Summative

The summative assessment is an end semester examination of three hour duration conducted by the university. The paper is valued centrally by an external examiner.

The internal assessment is a continuous basis by the course instructor and summative assessment is a third party process which brings in the transparency and normalcy of the assessment.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightage assigned for the overall development of students (weightage for behavioral aspects, independent learning, communicationskills etc.

The necessary improvements implemented before conduction of IA are as follows...

- 1) Any doubt about evaluation is made clear in advance to the students.
- 2) Appointment of inter and intra departmental squads to supervise the conducting of IA.
- 3) Ensuring the IA question papers set by the subject faculty is as per the format of VTU, and also up to the standard of the university examination.
- 4) Conducting regular viva-voce during every sessional class of theory and laboratory to prepare them well for appearing in internal assessment examinations as well semester end examinations.

- 5) The scheme and solutions provided by the course coordinator are assessed for meeting standards by the HOD and senior faculty, before the evaluation process is carried out.
- 6) Advanced intimation of the schedule of IA and for completion of evaluations are sent to all the faculty members by Academic Calendar with the schedule of internal assessment test and end semester examination for both theory and laboratory courses and to the students by the class teacher / mentor, hence giving ample time for the students to prepare and undergo the assessment process comfortably.
- 7) Cascading the schedule via showcasing on the notice boards, on website etc.
- 8) Introduction of O.M.R answer sheets for IA of environmental sciences and constitution of india and professional ethics for first year students and briefing them about the same.
- 9) Initiation of table marking, B-forms, maintenance of the attendance records and squad visits details.
- 10) The results are displayed on the notice boards of the department in printed format, and uploaded to AIPS and CARE software.

To ensure the overall development of the student the following are followed as per VTU norms

- 1) Technical Seminar in 8th semester for enabling speaking and presenting an idea
- 2) Project for integrated work to improve communication skill, group work as per VTU norm
- 3) Special Skill and placement training classes are conducted from 1st year to final year to see overall development of the student.

2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The institute has adopted ABET graduate attributes. The curriculum is prescribed by the affiliating university. The content / syllabi are strictly implemented to impart adequate knowledge and skills in the domain subjects. Opportunities to participate in group discussions, group seminars, colloquiums, etc., induce innovative ideas and enhance student's communication skills, work culture and ethical values. Departmental associations / clubs and other platforms have helped to develop team leadership, soft skills, social responsibility and sensitivity, community services, development of civic and aesthetic sense / feelings.

Program outcome is same as the graduate attributes. Course outcomes are individually defined by as per the guidelines and to verify the attainment DAC has been established at

department level, which consists of program coordinators, module coordinators who supervise the process of attainment of graduate attributes. PO/CO mapping is done by the course coordinators.

The IQAC supervises finalizing the graduate attributes for each department.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

- 1) At the institution level, redressal of grievances is for the internal assessment.
- 2) The students are provided with the scheme and solutions of the internal assessment test. The course coordinator (faculty) and head of the department address the grievances if any.
- 3) At the department level, the HOD forms a committee (inclusive of him/her and senior staff) that overlooks the matter to bring a resolution in the right earnest, as per the norms of VTU and Acharya Institute technology. If the student is not satisfied with the grievance redressal by the course coordinator and or the head of the department, he/she can approach dean (academics or dean student welfare) and the principal as the case may be.
- 4) The module coordinator ensures that members of the teaching team, including the seminar tutors, are fully briefed, about the objectives of the module.
- 5) At the university level, the means for grievance redressal by students with reference to the end semester evaluation is through re-totalling, obtaining the photocopy of the answer book and revaluation. All the process is as per norms of the university. The calendar of events is provided by the university which is communicated through notices-mails and hosting in the websites. The process are monitors by the respective mentor, head of the department ,dean(examination) and principal

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If ‘yes’ give details on how the students and staff are made aware of these?

Yes, each program in the institute has defined learning outcomes. These learning outcomes are widely publicized through

- 1) The institution website (www.acharya.ac.in)
- 2) The institutes IQAC cell disseminates the program outcomes

- 3) The department academic committee creates the awareness of course learning outcomes to the course coordinator
- 4) The course coordinator e mails the course objectives and course outcomes along with the lesson plan to all the students at the beginning of the semester for both theory and practical courses.
- 5) The internal assessment test question papers are framed addressing the course outcomes.
- 6) The attainment of the course outcomes is mapped by the course coordinator.
- 7) The DAC committee and the head of the department audit the attainment and deliberate the short comings if any.
- 8) The IQAC cell verifies the attainment in its TLP audit.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme / course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

The faculty member monitors the learning outcomes of the students by conducting internal tests, classroom interactive sessions and classroom seminars.

- 1) Each student knows the marks obtained in the internal exams as the IA books are distributed in the class for verification. Every month the attendance details are intimated to the students and those who fall short of attendance are counseled by their mentors.
- 2) The marks and attendance status are also communicated to the parents by SMS software facility.
- 3) The institution uses software called AIPS (Acharya Institutes Proctorial System), which helps the mentor to maintain the details of the academic performance of the students including their marks, attendance, and achievements.
- 4) The semester results are communicated to the parents through the mentors.
- 5) The students' achievements in technical/sports/cultural/societal are acknowledged through News Acharya and the information is uploaded to the institution website. This enables and motivates other students for active participation.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teaching, learning and assessment strategies of the Institutions are structured to facilitate the achievement of the intended learning outcomes through the structure shown in Fig2.2

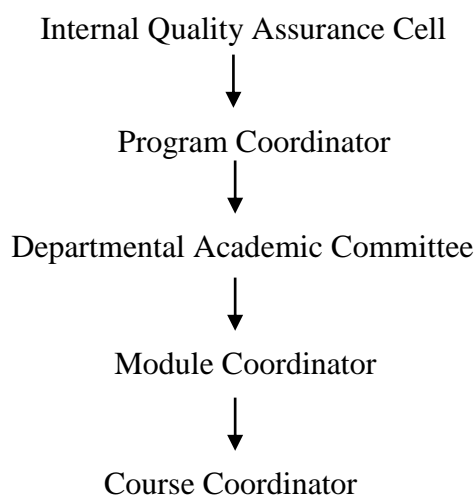


Fig 2.2 Teaching and learning structure

The institution IQAC, which supervises finalizing the academic formats, such as course file, lesson plan, survey formats, Internal test question paper pattern and auditing of the academic progress of each programme during the academic year. IQAC also motivates the faculty to adopt the innovative teaching methods.

The DAC committee headed by the program coordinator finalizes the outcomes of the programme. The committee comprises module coordinators and course coordinators who monitor the academic progress of the program. Module coordinator helps the faculty members to scrutinize, finalize and also approve the course objectives, course outcomes of the courses.

The teaching and learning is carried out by adopting teaching - learning methods like regular chalk and talk, case studies, quiz, debate, projects, seminars, group study, industrial visits, assignments, internships, publications, tutorial classes and augmented sessions by industry experts.

Assessment Strategy

- 1) The institution conducts three internal assessment tests each for 50/25/20/15 marks. Average of two test marks are considered, as IA marks awarded in theory courses.
- 2) In a semester two to three assignments are given to the students and their performance is assessed and graded, in CBCS scheme, for 5 marks.
- 3) In practical courses, every experiment conducted by student is assessed for 15/12 marks for experiment write up and for the viva-voce. At the end of the semester,

laboratory internal assessment tests are conducted to assess the performance of the student for 10/8 marks.

- 4) Student performance is also assessed by the university in theory and practical examinations.
- 5) Each final year student is supposed to carry out a project with a maximum of four members per team. It is assessed under the heads of project seminars with demonstrations. The project work is assessed by a committee comprising the guide, project coordinator and senior faculty members. The university examination for project work is carried out by internal and external examiners appointed by VTU.

2.6.4 What are the measures /initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The measures / initiatives taken up by the institution to enhance the social and economic relevance through:

A. Student Placements

- 1) The institution outsources the soft-skill training comprising of reasoning, aptitude, verbal communication, group discussion, mock interviews, resume writing, profiling through external agency.
- 2) The institution conducts program specific training through external agency.
- 3) The institution encourages alumni interactions to motivate and encourage students for placement.
- 4) The institution has signed MoU with leading industries and universities abroad, for projects, internships and placement assistance.
- 5) The department seeks suggestions from advisory board comprising people from both academic and industry to improve the opportunity for employment through placements.

B. Entrepreneurship

The institution has entrepreneurship cell which organizes seminars, workshops and guest lecturers to motivate students to become entrepreneurs. The institution organizes alumni interactions to motivate and encourage students for entrepreneurship.

- 1) The institution organizes industrial visits and interactive talks delivered by industrial executives to instill entrepreneurship amongst students.
- 2) The institution NSS wings regularly organize programmes to enhance the social relevance.
- 3) Incubation center of IBM
- 4) TBI to encourage incubation and to convert ideas into business proposals.

C. Through alumni interactions, through guest lectures and workshops.

- 1) The institution has collaborated with Sasken communication Pvt. Ltd. and has setup Sasken Acharya Innovation Lab (SAIL) for the faculty and students to take up innovative and real time projects. The institution has signed MOU with industries to provide opportunity for student to take up innovative projects.
- 2) The institution organizes project exhibition to identify and encourage the innovative projects carried out by students which are evaluated by committees comprising people from industry.
- 3) The institution has ideating cell which facilitates to convert ideas of students into projects.
- 4) The students are also encouraged to carry out in-house mini projects during semester.
- 5) The institution encourages the students to participate in international and national conferences, workshops and seminars, publications in journals and conferences.
- 6) The institution provides support to those students who want pursue GATE/GRE/TOEFL/IELTS coaching classes.

2.6.5 How does the institution collect and analyzed on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

Results are analyzed once they are announced and respective course coordinator made aware of the overall performance. Suggestions are given for improvement.

Institution collects data on student performance and learning outcomes by following means

- 1) internal assessment tests 2) university examination results 3) exit survey 4) employers survey 5) alumni survey 6) course end survey and 7) placement feedback.

Planning and overcoming barriers of learning

Based on the performance of the students in the internal assessment test and previous academic records slow learners are identified. They are given extra classes and question banks. The slow learners are given special care through counseling by course coordinators, mentor and HOD.

The students are motivated to take up innovative projects through project exhibition and are made aware of KSCST funding and also best innovative projects are funded through departmental forum fund and industry sponsored projects.

To improve the aptitude skills of the students training is imparted through external agency. The Institution facilitates to improve the communication skills in English and foreign languages through AIEFL.

To improve the academic performance of the students innovative teaching methods are adopted, for analytical oriented engineering subjects tutorial and remedial classes are held. Basic courses on mathematics are conducted to bridge the gap for lateral entry students.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

Learning outcomes are monitored through class performances. The monitoring is done through direct and indirect methods.

Direct methods

1) continuous internal assessment 2) university theory practical examination and 3) projects.

Indirect Methods

1) employer survey 2) placement feedback

Every course coordinator monitors the performance of students through classroom interactions, assignments, quiz, internal assessment tests, and case studies, mini projects, final year projects and publications. The achievement of learning outcomes is verified through university results, number of placements and number of students taking up for higher studies.

2.6.7 Does the institution and individual teachers use assessment / evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Yes, the assessment methods adopted as indicators for assessing the student performance are: internal assessment tests, practical internal tests, projects internal viva-voce/demo. The evaluation methods as indicators for evaluating student performance and learning objectives

are: VTU exam results, placements, number pursuing higher studies and entrepreneurship as a carrier.

Any other relevant information regarding Teaching-Learning and Evaluation which the College would like to include

The institution provides conducive environment to students for curricular, co-curricular and extracurricular activities. To motivate the students to excel in all curricular, co-curricular and extracurricular activities, institution identifies the best outgoing student from every programme and select valedictorian for the institute.

Institution also motivates students to perform well in academics by honoring program wise academic toppers every year, semester wise. Institution brings in the social responsibility among the students through NSS, iCARE and Nature Watch Club.

Criterion III ---Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes,

The institution has a research committee namely research and development cell to promote research activities. The composition of the research and development cell is as shown in Table 3.1

Table 3.1 Research and development cell

Name	Designation	Position
Maheshappa H. D.	Principal	Chairman
Sarath Kumar Maharana	HOD, Aeronautical Eng., Dean Rand D	Coordinator
Gopinath S. M.	HOD, Bio Technology	Member
Mahesha K.	HOD , Mechanical Eng.	Member
Sharanabasava C. Pilli	Professor, Department. of Mechanical Eng.	Member
Harish M. N. K.	Professor, Department. of Chemistry	Member
Rajeswari	HOD, Electronics and Communication Eng.	Member
Prakash M. R.	HOD, Civil Eng.	Member
Kumar P. V.	HOD, Computer Science and Engineering	Member

Recommendations made by the committee for implementation:

- 1) To identify the major thrust areas of research.
- 2) To initiate multidisciplinary research programs with special focal themes.
- 3) To evaluate the scientific excellence of projects before being further recommended for submission to funding agencies.
- 4) To motivate faculty to pursue Ph.D.
- 5) To inculcate research attitude among the students.

Impact

- 1) The committee has motivated many faculty to pursue their research leading to Ph. D program.
- 2) The committee has facilitated publications by research scholars in peer reviewed national and international journals.
- 3) The institute has got research grants from AICTE, DBT, KSCST, KFIST, VTU and VGST .
- 4) Students have taken up research projects for their thesis work in post graduation and projects under graduate level.

3.1.2 What is the policy of the college to promote research culture in the College?

The main policy of the institution is to promote research culture. It is to encourages the faculty members and students to involve themselves in various research, on innovative practice leading to research publication, product realization for societal use. The Management extends all possible support to promote research culture in the institution.

Registration fee is sponsored by the institution for presenting papers in the international/national conferences.

- 1) The institution provides laboratory, library/e-library, internet and computing facility to carry out research work.
- 2) The faculties are entitled for research leave of 24 days per year apart from vacation.
- 3) The institution organizes international/national workshops / seminars / conferences.
- 4) Provides special duty leave, TA/DA to the faculty members to participate in international / national workshops / seminars / conferences.
- 5) To develop scientific temper and aptitude among students, each department organizes guest lecture by experts from research organisations, symposia and conferences periodically.
- 6) The faculty in each department identifies topics in thrust areas where the student can take up either field studies or small projects, wherein the research methodology is practiced.
- 7) Students will be given an opportunity to work with the ongoing funded projects in the departments.

3.1.3 List details of prioritized research area and the areas of expertise available with the College.

The area of expertise in various departments for research is shown in Table 3.2.

Table 3.2 Research areas and expertise.

Department	Area of Expertise
Aeronautical Engineering	Aircraft structure, Avionics
Automobile Engineering	Metal Matrix Composites, Composites, Engineering Design
Bio Technology	Phyto Chemistry, Fermentation Technology, Bioprocess Technology, Medicinal Chemistry, Genetic Engineering, Quorum sensing inhibition, Enzyme technology, Cancer biology
Civil Engineering	Structural Design, Environmental Engineering, Geo Technical Engineering
Computer Science and Engineering	Data Mining, Wireless Sensors and Networks, Image Processing, Cloud Computing, IOT, Hepatics
Electronics and Communication Engineering	VLSI , Image and Speech Processing, Wireless Networks, Instrumentation, Robotics
Electrical and Electronics Engineering	High Voltage Engineering, Power System Studies, Data Mining Applications, Equipment and Outdoor Insulation, Renewable Energy System
Information Science and Engineering	Wireless Sensors and Networks, Big Data, IOT, Cloud Computing, Human-Machine Interface
Mechanical Engineering and Manufacturing Science and Engineering	Polymer Composites, Nano Composites, Vibration Analysis , Bearing Design, Data Analytics, Surface Coatings, Smart Materials, Materials
Chemistry	Energy storage (Batteries), Sensors, Polymer composites, Nano Particles and Medicine
Physics	Material Science, Content Matter of Physics, Nano Particles, Photoluminescence, Crystallography, polymers
Mathematics	Graph Theory, Number Theory
Master of Business Administration	Mutual Funds, Capital Markets, Derivatives and Risk Management
Master of Computer Applications	Number theory, Graph theory, Stochastic processes, Fluid mechanics, Differential geometry

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

- 1) Advancing funds for procurement of equipment for sanctioned projects
- 2) Autonomy to the principal investigator/coordinator for utilizing overhead funds

- 3) Institution level research and development committee monitors the project progress.
- 4) Submission of utilization certificate to the funding authorities

3.1.5 How is interdisciplinary research promoted?

Interdisciplinary research between departments of the Institution is promoted through discussion between senior faculty members of various departments to identify such projects with funds from the management. The students have full freedom to approach faculty and research laboratories of any department regarding research work and support.

Collaboration with National/International Institutes/Industries

The institution has signed MoUs and has collaborative arrangements with universities, industries and industry associations viz., 1) Illinois Institute of Technology, Chicago, USA 2) Florida International University, Florida, USA 3) Northern Illinois University, Dekalb, Illinois, USA, 4) Harrisburg University, PA, USA, 5) Carleton University, Ottawa, Canada, 6) Trinity Western University, Canada, 7) Old Dominion University, Norfolk, USA, 8) University of Illinois, Rockford, USA, 9) The University Institute of the Coast, Cameron, 10) Waljat Institution of Applied Sciences, Muscat, Sultanate of Oman, 11) University of Applied Sciences, Lubeck, Germany.

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

The institution regularly organizes the guest lectures. The departments are always encouraged to organize seminar, conferences and workshops. Eminent researchers are invited from premier institutions, research organizations and universities and industries as resource persons.

The list of eminent persons visited the institution during various programmes is listed in Table 3.3.

Table 3.3 List of visiting eminent researchers

Faculty	Title of the program	Date
A K. Mukhopadhyaya	Nano indentation of Ceramics, Thin Films, Coatings and Composites	2/3/2013
Dr C Shivaram, Ex. Scientist, Indian Institute of Astrophysics, Bangalore.	Astronomy-The future	20/3/2013

Faculty	Title of the program	Date
Lakshminarayana	An overview on Renewable energy Resources	21/3/2013
Subimal Bhattacharjee	Cyber Terrorism	03/04/2013
Srinivas Shastri	Rapid prototyping and PLM	19/4/2013
Shashank Bhatnagar, Department of Physics, Addis Ababa University, Addis Ababa, Ethiopia.	Particle Physics	24/08/2013
Vijay Kumar Badagi	Dynamic response of thickness- and width-tapered laminated composite beams using Rayleigh- Ritz	04/09/2013
Afsar, Member Advisory Committee for Kerala State Government Science and Technology Environment	Ideas, Innovation, Research and its Protection	22/2/2014
Ashok Godavarthi, MD, Radiant Biosciences, Bangalore	Animal cell culture- an effective tool in drug discovery	12/03/2014
H R Mahadevaswami, Applied Invention Pvt. Ltd	IPR design issues	17/06/2014
S S Iyengar, Florida International University	Cyber security	05/08/2014
Yogisha.S. Scientist- Skanda lifesciences Pvt ltd	Drug discovery and development- G protein coupled receptor target and catabolic action of parathyroid hormone on osteoblasts cells UMR-106	22/09/2014
Sunder N R, Vice President, Accenture India	Big data and hadoop framework	28- 30/01/2015
S.N. Sondur, Project coordinator, Biofuel Cell, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore.	Research Opportunities in Biofuels	7/2/2015
E.S.Dwarak Das CEO and MD, Karnataka Hybrid Micro Devices Ltd. IISc, Bangalore	Li and polymer battery and its applications	27/2/2015
T Srinivas, IISc, Bangalore	Optical MEMS	09/03/2015
Patra, HOD, Biochemical Engineering, University of Bridgeport, USA	Recent Research in biochemical engineering	19/03/2015
Sathyak Sundar Padhy, UDVAVISK Technologies Pvt. Ltd, Chennai	Open Source tools powered Engineering	17/4/2015

Faculty	Title of the program	Date
T Ram Prabhu, Scientist, DRDO, Bangalore	Role of composite materials in automobile industries	23/4/2015
S S Kale, Regional Director, DRDO, Bangalore	Technologies and amperage improvement in automobile	23/4/2015
N Rudraswamy, Professor Bangalore University, Bangalore.	Analysis of biomolecules	19/5/2015
Anoop Singh, Principal, ETA, Infosys Ltd., Bangalore.	Overview of big data and hadoop ecosystem	10/9/2015
Rajeev Agrawal, Department of Computer Systems Technology, North Carolina A and T State University, Greensboro, USA	Big data analytics	18/9/2015
C.S.Vivek Babu, Senior Scientist, CSIR-central Institute of medicinal and aromatic plants, Research centre, Yelahanka, Bangaluru	Biorationale pesticides from aspergillusterrus- A sustainable technology from mind to market	04/11/2015
David Smith, Professor, Cell Biology, Sheffield Hallam University, UK	Home-made proteins and 3D cell culture to detect biomolecules and investigate disease	3/2/2016
Prakash S Kulkarni, Chief Scientist, Computational Mechanics Laboratory, Department. of Aerospace Engineering	Recent development in automobile engineering	18/2/2016
Jeremy Simpson, Head and Dean-School of Biological Sciences, UCD, Dublin, Ireland	High through put GFP tagging and localization of novel protein	23/2/2016
H. Jayakumar, Galaxy Earthing Electrodes Pvt. Ltd., Bangalore	Power system grounding and measurement	20/07/2016
Nagabhushan K , Business Development Head, NichePro Technologies	Current trends in electronics	26/08/2016
Viswa bharmadut Bhatt, Epoch, Bangalore	Applications of SAS software in clinical research	09/09/2016
Sreenivasan Bhagavan, Director, Carrier - Race Technologies Pvt. Ltd, Bangalore	Building Automation and integrated building management	03/11/2016
Vamsi Pathodar, Edu Kinect, Partner of Microsoft	Research trends and technologies	02/03/2017
Haja Mohideen, President and CEO, Rocheston LLC, New York, USA	Innovation strategy and disruptive technologies	22/02/2017

Faculty	Title of the program	Date
Desineni Subbaram Naidu, University of Minnesota Duluth (UMD), USA	Optimal control system	24-25 /03/2017
International and Domestic Patents (electronics, telecommunication, software, antennas, optics, satellite)etc.		26/4/2017

3.1.7 What percentage of faculty has utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

Sevugarajan S, Professor, Department of Electronics and Communication was on Sabbatical leave when he visited Florida International University during April to October 2015. (6 months)

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events. (Five Years)

AIT routinely conducts national and international conferences. Also several seminars/workshops are organized by the departments and the research wing of institution with focus on capacity building in term of research and imbibing research culture among the staff and students. Table 3.4 shows the details of the national and international conferences.

Table 3.4 National and international conferences organised

Conference Title National/ International	Names of the eminent scientists/scholars participated	Year
National Conference on Recent Advances In Nano science and Technology[NCRNT-13]	1) Madhusudan.B, dean and Chairman, NanoScience and Technology, DavanagereUniversity, Davanagere. 2) KasturiRangan, chairman, CCT, IISC, Bangalore. 3) K.Vijaya Kumar, Registrar, Sri Krishnadevaraya University, Bellary.	2013
National Workshop on “Ns2 and Wireless Protocol Design”	1) PrasannaVenkatesh, Lead Architect, Huawei Technologies India Private Limited, Bangalore 2) Mohith P. Tahiliani, Adjunct faculty, Department of Computer Science Engg NITK Surathkal.	2013

Conference Title National/ International	Names of the eminent scientists/scholars participated	Year
National conference on recent advances in nano Science and Technology (NARNT)	1) Nagabhushan, Department. of Chemistry, MSRIT, Bengaluru 2) Demappa, Department. of Polymer Science, University of Mysore, Mandya	2013
Techman – 13	1) FawzySoliman, Professor, 2) University of Technology, Sydney, Australia. 3) BinduMadhav,	2013
Faculty Development Program	Principal and AIT Deans	2013
Workshop On Latex	1) ChandrashekhharPatil, Associate Professor, VVCE, Mysuru 2) Nagraju B.G, Associate Professor GMIT, Davanageri 3) PurohitSrinivasacharya, Associate Professor, SIT, Tumkur	2014
Workshop On Product Design and Innovation	1) AAchuthaRao Former Centre Head, NID R and D Campus Bangalore	2014
National level Conference on Innovative Practices in Management	1) ArunBharadwaj, Asia Pacific Director, Dell Corporation 2) NandhiniChawla, CEO, TV Rao Learning Systems 3) MahidharaDavanegere, MD, PramathaInvestments 4) Sriniv Narayanan, Consultant, Tanisq	2014
Techman – 14	1) K.Rajanikanth, former advisor and Principal of MSRIT, 2) Padmashri. R.M Vasagam	2014
Special Faculty Development Program-AIT	Principal and AIT Deans	2014
Workshop on "Automobile Mechanics and IC Engine Design	KhullurDhawal ,EI systems	2014

Conference Title National/ International	Names of the eminent scientists/scholars participated	Year
National Conference on Rural Entrepreneurship - Opportunities and Challenges	1) Srikrishna S Murthy, CEO, Sattva Media and Consulting Pvt. Ltd	2015
One day National conference -ICCE 2015	1) S C Boregowda, Chief Engineer (Retd), PWD (karnataka)	2015
Geometrical Dimensioning and Tolerance	Saravanan from SKF	2015
International Conference on Trends in Automation, Communication and Computing Technologies (ITACT-2015) -	1) Vijay Anand, Engineering Director in Aricent Technologies. 2) Sithu D Sudarsan, Group Manager ABB Corporate Research, India 3) K.V. Prasad, BIT, Bangalore 4) Venkatesh Prasad, CEO, RV-VLSI 5) Thriveni J, UVCE, Bangalore 6) Aravind H S, JSSATE, Bangalore 7) AndhePallavi, RNSIT, Bangalore	2015
International Conference on Trends in Automation, Communication and Computing Technologies (ITACT-2015)	1) Vijay Anand, Engineering Director in Aricent Technologies. 2) Sithu D Sudarsan, Group Manager ABB Corporate Research, India 3) K.V. Prasad, BIT, Bangalore 4) Venkatesh Prasad, CEO, RV-VLSI 5) Thriveni J, UVCE, Bangalore 6) Aravind H S, JSSATE, Bangalore 7) AndhePallavi, RNSIT, Bangalore	2015
National Seminar on Emerging Trends in Metal Forming and Heat Treatment	N.S Mahesh, Head-Manufacturing and education Business, Astutix Learning, Bangalore Jayanth Jamuar, Ex-Technical Director, Kadvani Forge Ltd, Rajkot Lakshmi Narayana, Professor, Mechanical Engg. Department, Dayanand Sagra Institution of Eng., Bangalore Bikas Musib, Business Development Manager, AFTC, Bangalore	2015

Conference Title National/ International	Names of the eminent scientists/scholars participated	Year
National Seminar on Emerging Trends in Metal Forming and Heat Treatment	Kelvin Lobo, Senior Executive Engineer, Kennametal India Limited	2015
A National workshop on “Python Programming	Miti Bhat, Director of Technology, Kekkar InfoTech and Services, Bangalore	2017

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).

Research projects taken up by the institution are mostly of national relevance. Both post graduate and under graduate students give preference to take up projects related to industrial and societal needs.

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

Table 3.5 shows the faculty guiding the research.

Table 3.5 Eligible faculty in research guidance.

Department	Name of the faculty	Research area
Aeronautical Engineering	Sarat Kumar Maharana	Aerospace Engineering
	Mallikarjun Vaggar	Aircraft Design Optimization
Automobile Engineering	Chandrappa C. N.	Machine Design
Biotechnology	Gopinath S. M.	Microbiology, Environmental Biotechnology, Nano Biotechnology, Enzyme technology
	Ismail Shareef M.	Plant Biotechnology. And Genetic Engineering
	Suneetha T. B.	Chemical Engineering, Bioprocess Engineering, Phytochemistry

Department	Name of the faculty	Research area
Civil Engineering	Balasubramanya N.	Civil Engineering
	Prakash M. R.	Structures
Computer Science and Engineering	Kumar P. V.	Computer Science Engineering
	Nagaveni V.	Computer Science and Engineering
Construction. Technology and Management	M T Maruthesha Reddy	Geology
Electronics and Communication Engineering	Rajeswari	Speech Processing
	H D Maheshappa	Instrumentation
	Sevugarajan S	Instrumentation
Electrical and Electronics Engineering	ShivakumarAradhya	High Voltage Engineering
Information Science and Engineering	Mamatha G	Wireless Networks
	Suresh Babu	Computer Networks
Mechanical and Manufacturing Science and Engineering	Mahesha K	Manufacturing, Materials Engg,
	S.C.Pilli	Machine design
	K. Nagaraju	Production
	Devarajaiah R. M	Machine Design/Polymer Composite Tribology
	Lokesh G. N	Production engineering systems Technology
Mechatronics	A R K Swamy	Composite materials
Mining Engineering	B.B. Mandal	Environmental Science and Engineering
Chemistry	Vishnuvardhan T	Inorganic chemistry
	Harish MNK	General chemistry
Mathematics	Rajanna K R	Number theory
	Pradeep Kumar	Differential geometry
	T Rami Reddy	Graph theory
	Rajeshwari M	Graph theory
	Md. Samuel Haque	Graph theory
	Manohar M C	Statistics

Department	Name of the faculty	Research area
Mathematics	Kavitha S Permi	Graph theory
	Sanddep Kumar	Mathematical analysis
Master of Business Administration	G Ramanaiah	Finance
	Prakash B Yaragol	Finance
	Satyapriya .J	HR
	Sandip Sane	Marketing
	Renukadevi	Marketing
	Ganesh Babu M	Marketing
Master of Computer Applications	Ramesh Hedge	Image Processing

Table 3.6 shows the funding received for research activity.

Table 3.6 Research funding

Financial Year	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned order no.	Sanctioned date	Amount Received (Rupees)
2010-11	Gopinath S. M.	DBT, New Delhi	Training and Demonstration on cultivation of cut flowers Authurium and Orchids for Economic and Entrepreneurship development of Rural weaker population and SC/ST women of Tumkur and Bengaluru rural district	BT/PR14594/SPD/09//1059/2010	2010	2,215,000/-
2012-13	Chandrappa C. N.	AICTE	Development of HVOF sprayed cermets coating improving resistance to hot corrosion and erosion of gas turbine alloys	Ongoing	6/3/2013	1,810,000/-
2013-14	Prem Kumar H. B.	VGST	Development of cost effective rare earth activated perovskite structured nano phosphorus display, dosimetry and weld applications		2013-14	600,000
	Varalakshmi B.D.	VGST	Implementation of Haptic devices	VGST/P-3/SMYSR/GRD-293/2013-14	24/02/2014	600,000/-

Financial Year	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned order no.	Sanctioned date	Amount Received (Rupees)
2013-14	Annaiaah	VGST	Facilities for Research in Material Science and Engineering	VGST/K-FIST(Level-II)/GRD-153/2013-14	30/6/2013	4,000,000/-
	Mahesha .K	AICTE	Studies on Damping Characteristics of Magneto-Mechanical Material Coated Alloys	20/AICTE/RIFD/RPS(POLICY-III)76/2012-13	12/8/2013	2,000,000/-
2014-15	Nijaguna	Jindal Steel Works Ltd.,	Employee satisfaction survey		May, 2014	225,000
2016-17	Rajeswari	VGST	Development of Automatic Weed Detection and Herbicide Spraying Control in Horticulture Plantation	K-Fist/VGST/05/K-Fist/2015-16	20/6/2016	20,00,000/-

Guiding student research

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

About 15% of the overall budget is earmarked for research. The budget allocated for R and D and then expenditure on the R and D activity is shown in the table 3.6

Table 3.7 Actual expenditure for R and D Activities

Year	Overall Budget	Expenditure - General	Budget – R and D	Expenditure – R and D	% of R and D actual exp
2013-14	548,706,055	389,566,468	4,625,003	603,727	13
2014-15	599,000,000	633,599,015	4,625,003	1,364,713	29.5
2015-16	590,944,313	470,634,983	5,385,000	681,041	12.65
2016-17	569,671,356	330,645,484		11,252,986	

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

Table 3.8 shows the expenditure for the student research projects

Table 3.8 Funding for student research projects

Year	Funding Agency and Scheme	No of Projects	No of Project Students	Amount Sanctioned (Rs.)
2013-14	Acharya Institute of Technology	01	04	12,000/-
2014-15		01	04	30,000
2015-16		02	08	30,000

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

Yes

There is a provision in the institution to provide seed money to the faculty for research. The details are shown in Table 3.9

Table 3.9 The Details of the seed money for research

Year	2013-2014	2014-2015	2015-2016	2016-2017
Amount in Rs	603,727	681,041	1,252,986	1,364,713

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

Yes,

- 1) Composition and method for submerged culturing of edible mushroom
Patent application has been filed during July 2011 by Biotechnology department.
- 2) Mavitronics 3D printing concept for building 3D objects during 2016 by students of Mechatronics

3.2.5 Provide the following details of ongoing research projects

The Ongoing Funded Research Projects as on date is shown in Table 3.10

Table 3.10 Ongoing funded research projects

Name of Faculty (Principal Investigator)	Title of the Project	Name of the Funding agency	Sanctioned order no.	Amount Received (In Rupees)	Sanctioned date
Annaiaah	Facilities for Research in Material Science and Engineering	VGST (K_FIST)	VGST/K-FIST(Level-II)/GRD-153/2013-14	4,000,000	30/6/2013
Chandrappa C. N.	Development of HVOF sprayed cermets coating improving resistance to hot corrosion and erosion of gas turbine alloys	AICTE		1,810,000	6/3/2013
Varalakshmi B. D.	Implementation of Haptic devices	VGST	VGST/P-3/SMYSR/G RD-293/2013-14	600,000	24/02/2014

Name of Faculty (Principal Investigator)	Title of the Project	Name of the Funding agency	Sanctioned order no.	Amount Received (In Rupees)	Sanctioned date
Rajeswari	Development of Automatic Weed Detection and Herbicide Spraying Control in Horticulture Plantation	VGST	K-Fist/VGST/05/K-Fist/2015-16	20,00,000	20/6/2016

3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC-SAP, CAS, DST-FIST, DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

1) Departments of a) Aeronautical Engineering, b) Bio Technology, c) Computer Science and Engineering, d) Chemistry, e) Electronics and Communications, f) Electrical and Electronics, g) Mathematics, h) Mechanical Engineering, i) Physics are recognized research centers by Visvesvaraya Technological University, Belagavi.

2) Department of Biotechnology is recognized by DBT

Significant outcomes a) Department of Biotechnology received Rs 10 lakhs worth research grants awarded by Visvesvaraya Technological University, Belagavi and b) Department of Biotechnology received 22 lakhs worth research grants funded by DBT

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/National/International agencies).

With the encouragement provided by the institution, departments of AIT have received research funds from several National agencies and have successfully completed the funded projects as mentioned in Table 3.11.

Table 3.11 Completed funded research projects

Name of the project	Principle Investigator	Sponsoring agency	Amounts Sanctioned (Rs.)	Duration (Start date - End date)
Mechanical Engineering				
Studies on damping characteristics of magneto-mechanical material coated alloys	Mahesha K.	AICTE (RPS)	Rs. 2,000,000	2013
Master of Business Administration				
Employee Satisfaction Survey	Nijaguna	Jindal Steel Works Ltd.	Rs. 225,000	May-Nov, 2014
Physics				
Development of cost effective rare earth activated perovskite structured nano phosphorus display, dosimeter and weld application	Premkumar H. B.	VGST	600,000	2013-2014
Biotechnology				
Training and Demonstration on cultivation of cut flowers, Anthurium and Orchids for economic and entrepreneurship development of rural weaker population and SC\ST women of Tumkur and Bangalore rural districts	Gopinath S. M. Prof and Head	DBT	2,150,000	2012-2016

Total Value of completed projects is Rs. 8,975,000

3.3 Research Facilities

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate research? How and what strategies are evolved to meet the needs of researchers?

Some of the strategies are evolved to meet the needs of researchers.

- 1) Institution provides well established infrastructural facilities to all departments, where computing facilities and testing facilities are provided
- 2) Institution has digital library with e-sourced and print journals.
- 3) Financial support is provided for presentation in conferences, workshops and publications.
- 4) Research leave facility is extended to interact with guides and carrying out research work.

3.3.2 Does the College have an information resource Centre to cater to the needs of researchers? If yes, provide details on the facility.

Yes

The institution has an information resource centre in the form of digital library with good infrastructural facilities to enable researchers to review the recent literature. The library provides the services of new arrivals through mail to the entire faculty.

The institution library provides the following facility to carry out research.

- 1) Reference books
- 2) Magazines and journals
- 3) Online journals
- 4) Computer with internet facilities

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

No

3.3.4 Does the College have a specialized research centre/workstation to address challenges of research programmes? If yes, give details.

Yes

The departments have established specialized research facilities to facilitate computational and experimental work.

3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

No

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

Major Papers Presented in Regional, National and International Conferences

The details of presentations in various conferences are shown in Table 3.12

Table 3.12 Details of the papers published and presented

Number of Major Papers Presented in Regional, National and International Conferences/Books (Authored/ Edited/Chapter Contribution)					
Department	2013-14	2014-15	2015-16	2016-17	Books
Aeronautical Engineering	09	05	05	06	03
Automobile Engineering	07	08	02	04	03
Biotechnology	03	08	03	01	
Civil Engineering	06	11	14	05	06
Computer Science and Engineering	32	58	11	08	
Construction Technology and Management			05		04
Electronics and Communication Engineering	18	29	14	17	01
Electrical and Electronics Engineering	10	16	18	10	
Information Science and Engineering	20	16	35	15	
Mechanical / Manufacturing Science and Engineering	36	31	18	03	06
Mechatronics	12	03		01	
Mining Engineering	01	02	02	01	
Chemistry	13	08	07	05	
Mathematics	17	28	09	03	
Physics	19	24	17	15	
Master of Business Administration	20	10	16	06	02
Master of Computer Application	43	26	08	10	
Total	266	283	184	110	25

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

No

3.4.3 Give details of publications by the faculty:

The details of publication by the faculty in National/ International Journals and Books authored/edited/ chapter contribution is enclosed Evaluative Report, Volume II, Part II.

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided by faculty.

Table 3.13 shows the details of completion of PhD/M.Sc (Engg) /M.Phil guided by the faculty.

Table 3.13 Details of completion of Ph. D guided by the faculty

Name of the Faculty	Topic of Research	University	No. PhD's Awarded
Sarat Kumar Maharana	Aeronautical engineering	VTU	8
Kumar P. V.	Computer Science and Engineering		2
Maheshappa H. D.	Instrumentation	VTU, MGR	5
Shivakumar Aradhya	High Voltage Engineering	VTU	6
Pilli S. C.	Machine design	VTU/KLE	3
Balasubramanya N.	Civil Engineering	VTU,MGR	3

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

The institution is against malpractices and misconduct on the part of the researchers. It continuously monitors the funds sanctioned by the funding agencies and the research work being carried out by the researchers. Auditing is also done on the fund received for research.

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavor.

No, specific research work of inter disciplinary research work in collaboration with two or more departments is carried out. However on an informer basis the research activities are discussed on inter departmental basis.

3.4.7 Mention the research awards instituted by the College.

Following recognition and awards have been constituted by the management.

- 1) Best project award
- 2) Best innovation award
- 3) Best project of social relevance award.
- 4) Best project presentation award

3.4.8 Provide details of research awards received by the faculty recognition received by the faculty from reputed professional bodies and Agencies

S Sevugarajan is awarded, research excellence award by discovery laboratory school of computation and information science, Florida international university during Oct., 2015.

3.4.9. State the incentives given to the faculty for receiving state, national and international recognitions for research contribution:

Nil

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

Nil

3.5.2. Does the college have College-industry cell? If yes, what is its scope and range of activities?

Yes

Institution has industry institute interaction cell.

- 1) Experience of our alumni, placement cell, industry institute interaction cell, centre for innovation and leadership cell play a pivotal role to establish institute- industry – interface. Some of the faculty members, engaged in research work, frequently interact with the industry personnel.
- 2) Institute- Industry relationship is a part of our educational set up. The placement cell of the institution initiates the interface talks with the industry as well as training institutes oriented towards the technical skill set and soft skill improvement of the students so as to enhance their employability skill. The cell also at times designs the modules according to the requirement of students.
- 3) The institute has MOUs with various industries and organizations for giving a practical exposure.
- 4) The institute entertains the industry – institute – interaction by engaging them in the following activities

- a) Eminent persons are invited for departmental guest lectures, seminars and conferences.
- b) Many of the students are motivated to do their academic projects in industries.
- c) Students are encouraged to undergo in-plant training and internship.
- d) Institute Industry cell creates an opportunity for placement to students in core industries.
- e) Industrial Visits are organized
- f) Conducting technical events
- g) TBI and incubation centres help in owing the entrepreneurial skills.

Industrial Visits Details

The details of industrial visits is shown in Table 3.14

Table 3.14 Industrial visits

Department	2013-14	2014-15	2015-16	2016-17
Automobile Engineering		2	2	3
Civil Engineering	1	3	1	2
Computer Science and Engineering			4	1
Electronics and Communication Engineering	2	5	2	7
Electrical and Electronics Engineering	6	5	8	2
Information Science and Engineering	2	1	2	3
Mechanical and Manufacturing Science and Engineering	2	6	6	4
Mechatronics		3	3	1
Mining Engineering				1
Master of Business Administration	4	2	4	3

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Nil

3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

Nil

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

Nil

3.6 Extension Activities and Institutional Social Responsibility

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on student's campus experience.

The institution promotes institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students. Blood donation camps, by conducting several awareness programs or rallies on/off the campus like Swatch Bharat and health awareness rally. Details of the activities conducted in the departments are mentioned in Table 3.15

Table 3.15 Details of the social outreach activities

Activity	Organization	Expenditure (Rs.)
Distributing braille watches to blind inmates	Vikas disabled Charitable Trust	10,000
Blood donation by students and Faculty	NIMHANS	Nil
Rain water harvesting	Govt. Primary School Chikkabanavara	Nil
Training on Water Recharging	Farmers on Chikkabanavara	
Blood donation by students and Faculty	Indira Gandhi Child Hospital, Lions Club	Nil
Blood donation by students and Faculty	NIMHANS	Nil
A talk on "Hygiene" and awareness on cancer and precaution	Staff and Students of Govt. Primary School, Chikkabanavara	

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

NCC envisions building the youth confidence and spirit to serve the nation and humankind. NCC regularly conducts training camps women empowerment rally, trekking, Guard of honors to dignitaries, women self defense, blood donation camps and Go green rally

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

Nil

NSS envisions building the youth with the mind and spirit to serve the society and work for social upliftment of the weaker sections of the society. NSS regularly conducts awareness programmes science day, Sadbhavana day, health awareness, blood donation, computer literacy in rural areas, women health and hygiene, water conservation, shramadana etc. NSS camps are conducted every year adopting a rural village to bring awareness about health, hygiene and ethical living.

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

Department of Biotechnology is involved in a skill development program for rural weaker population of SC/ST and women through tissue culture technique training and in training for handling of cut flowers

3.6.5 Give details of awards / recognition received by the College for extension activities /community development work.

Nil

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement student's academic learning experience and specify the values and skills inculcated?

Parallel to academics regular extension activities are organized by the institute. Such activities reflect the student's obligation towards society which will direct them to find solutions to societal problems through science and technology.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

AIT continuously involves in the outreach activities through NSS unit, representatives from each club are permitted to participate in the training programmes and they monitor the activities of the respective clubs. Additionally, they also conduct special programmes/guest Lectures to encourage the participation of student community in the outreach activities.

The institution has contributed to both community- institution networking and development of institutions. Extensive supports from the students are witnessed during tree plantation, rain water harvesting, blood donation etc. The alumni association is also involved in all these extension activities.

Competitions are held for the children and certificates and prizes are awarded. The institution has taken the initiative to educate the society about social and health problems, environmental protection, consumer protection awareness, anti-corruption, HIV awareness, anti-tobacco, cleanliness awareness, road safety and cancer awareness etc.

Construction of Acharya Dr. Sarvapalli Radhakrishnan road with adjoining plantation is a social responsibility of JMJ education trust to its neighbor hood.

3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes

The institution has various clubs to track the student's involvement in various social movements and the activities are mentored by the faculty members. The institution encourages the students to be the members in at least one of the co-curricular /extracurricular forum/clubs which provide social service. The institution motivates the students for extracurricular activities. The nature club regularly organizes activities to shady the nature, waste management, water conservation, safe drinking water.

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities

Nil

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Nil

3.7 Collaboration

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

- 1) The Institute encourages faculty and students of different departments to take active role for collaborative research projects in the Interdisciplinary areas.

- 2) The institution has several ongoing process academic amalgamations. In order to complete their process a high level committee has been appointed to accomplish the MoU with leading research centers and industries.
- 3) This has contributed in faculty exchange as resource person for seminars/workshops, collaborated Ph.D. research projects and joint research publications; and curriculum development.
- 4) The collaboration with the Industries has resulted in students' industrial training and better placement.
- 5) This has also resulted in increased consultancy activities of the faculty.
- 6) The institution has collaboration with many companies, industries for mutually beneficial relationships that include faculty development programmes, guest lecturers for students and faculty, sharing of physical resources etc.

3.7.2 Mention specific examples of, how these linkages promote

Curriculum development

The collaboration activities have helped in internship, faculty exchange, research collaboration, extension activities and student placements.

Internship/ On-the-job training

Training provided to the students on the job to have pragmatic and experiential learning is organized from second year onwards and for post graduates the internship is compulsory.

Faculty Exchange and Professional Development

Garnered the technical expertise from industrial experts and shared our resources and has helped the faculty to gain the insight of industry/universities in India and abroad.

Research

Motivating the faculty to pursue research activities

Extension

Students are encouraged to involve in community development programmes and extension activities.

Student Placement

Industrial contacts and rapport have helped in placing good number of students in viable employment

3.7.3 Does the College have MOUs nationally / internationally and with institutions of national importance/other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

Acharya Institute of Technology has a very good network with several foreign institutions. Some of these are 1) Illinois Institute of Technology, Chicago, USA 2) Florida International University, Florida, USA 3) Northern Illinois University, Dekalb, Illinois, USA, 4) Harrisburg University, PA, USA, 5) Carleton University, Ottawa, Canada, 6) Trinity Western University, Canada, 7) Old Dominion University, Norfolk, USA, 8) University of Illinois, Rockford, USA, 9) The University Institute of the Coast, Cameron, 10) Waljat College of Applied Sciences, Muscat, Sultanate of Oman, 11) University of Applied Sciences, Lubeck, Germany. Network With Industries: MOOG India Technology Centre, Bangalore, IBM India Pvt. Ltd., Genius Minds SAP India Pvt. Ltd., ITB, UTL Technologies Limited, Dynamatic technologies Ltd., Mahindra and Mahindra Ltd., Infosys Ltd., Sasken Communication Technologies Ltd., and TIME. Network with Industrial Associations: CII, IDMA, KDPMA, FICCI, BCIC, ABLE, IMTMA, Peenya Industries Association, Indian Electronics and Semiconductor Association, Computer Society of India, National Design and Research Forum, Indian Horticulture Research Institute

3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

Table 3.16 Facility created by the industry in establishing specialised laboratory.

Facility/Major Equipment	Amount	Source
Electronics and Communication Engineering		
Sasken Acharya Innovation Lab (SAIL)	5 lakhs	AIT

Criterion IV: Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The policy of the institution for creation and enhancement of infrastructure is to facilitate effective teaching and learning. It is chalked by taking inputs from the academic council building committee, purchase committee and finance committee. Keeping in view the current dynamic demands of effective teaching and learning of new courses, programmes the academic council recommends creating, enhancing new infrastructure and renovating the existing infrastructure. The policy decision is taken by the management.

Management policy has been to provide ideal environment for effective teaching and learning. Requisite infrastructural facilities in all departments and administrative offices have been provided. The classrooms, seminar halls, laboratories have been provided with excellent facilities with Wi-Fi, ICTs, LCD projectors. Central library easily accessible is located in an independent building with state-of-art ICT facilities. For English language proficiency teaching, training, testing and skills development, excellent facilities for self-learning/independent learning are available in Acharya educational services unit. Being the composite technical campus many innovative systems/facilities available in other institutions are shared. All the classrooms are well furnished and departments housed in spacious blocks. Board rooms, discussion rooms, seminar halls, auditorium facilitate effective teaching learning. Unique architectural layout of buildings with refreshing colour schemes, shapes, forms, levels, water bodies, boulevards, cobbled promenades and landscaped green spaces. Aesthetically designed buildings break the monotony with interlocked walls, open spaces, nooks, corridors, courtyards, that encourage one-to-one contact and lively interaction.

4.1.2 Detail the facilities available for

- a) **Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

The Institution is located in a serene campus of 120 acres. The total extent of land allocated to AIT, at present, is 15.01 acres. The Institution has a built-up area of 1014529sq m. The

Institution is endowed with a large campus and adequate infrastructure facilities and resources to conduct the curricular, co-curricular and extracurricular activities.

Table 4.1 Infrastructure for curricular and co-curricular activities

Description	Block	Nos.	Nos.	Area in m ²
Class rooms UG & PG	ANA	64	137	9543 LCD projector is available in most of the classrooms
	ME	13		
	EEE	28		
	MBA	16		
	IS/CS	16		
Laboratory – UG & PG			105	11,581
Research Laboratory			09	594
Workshop			02	1,673
Computer centre			5	1,400
Drawing Hall			02	306
Library			1	4,633
Seminar Halls			5	2,812
Principal/Director Office			1	80
Board Room			2	101
Administrative space including departments			25	7,123
Cabins of Heads of Departments			16	480
Faculty rooms			18	2,770
Central stores			15	546
Maintenance Department			1	52
Security			2	80
House Keeping			1	26
Pantry for Staff			5	175
Examination Control Office			2	368
Placement Office			1	26
Boys Common Room			1	50
Girls common room			1	50
Cafeteria			3	350

Description	Nos.	Area in m2
Canteen	1	600
Stationery Stores	1	20
First Aid cum Sick room	1	150
Principal's Quarter	1	150
Guest House	1	175
Sports room / Gymnasium	1	332
Auditorium / Amphi Theatre	1	350
Boys Hostel	6	5,980
Girls Hostel	5	2,498
Corporate public relations department & admission	1	1,156
Sports(stadium)	1	2,9350
Basket ball court	1	2,183
Volley ball court		2,883
Sports club/indoor games		1,162
Circulation area		9306
Amenities		2290
Additional New Built up area of ANA block(new) & EC new Total built up area		34,530 92,933
Total		104529
Transportation Parking facility(bus, car & two wheeler) and open space for car/bus parking		6226 13068
Sewage treatment plant		397
Rain water harvesting		2,259
Ground coverage		22,500
Total open area		97,636
Area occupied by roads		42,771
Area occupied by stadium and play field		12,795
Area of future expansion		115,35
Area of landscape		30,535

- b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

Adequate infrastructure has been provided for students to take part in extracurricular activities. The auditorium with a seating capacity of more than 500 seats is very well equipped with good acoustics. The departments have seminar halls to conduct extracurricular activities. National level symposium and cultural activities are conducted here on a regular basis. The institution has a gymnasium to encourage physical fitness. Facilities for conducting indoor sports like chess, carom, table tennis, etc. are available including systematic well laid badminton, volley ball, throw ball, basketball, hand ball courts, football and cricket grounds.

Student Participation and Activities

Students of the Institution participate in various sports and games like chess, basketball, football, badminton, table tennis, cricket, volleyball, kho- kho and hockey. The special facility available to the students is for horse-riding, and archery. The department of physical education coaches and supervises for indoor and outdoor games and conducts annual meets, university meet and acharya habba sports events. Institution has organized inter zonal, zonal and lead institution level tournament successfully.

Achievements in 2014-15

During the academic year 2014-2015, department of physical education and sports organized the following events in AIT campus. Some of them are as follows:

- 1) VTU north zone softball (Men) Tournament.
- 2) VTU Bengaluru north zone, inter-zone, single zone kabaddi (men & women) tournament and selection trails.
- 3) VTU kabaddi (women) coaching camp to participate in Inter university south zone tournament held at Kannur University, Kannur.

Achievements

- 1) 2nd place in VTU Bengaluru North Zone Volleyball (men) Tournament 1st place in VTU Bengaluru North Zone Soft Ball (Men) Tournament held at A IT Bengaluru.
- 2) 3rd Place in VTU Inter Zone Softball (men) tournament held at NIE Mysore.
- 3) 1st place in VTU Single Zone Soft Ball (women) Tournament held at NIE IT Mysore.
- 4) 2nd place in VTU Bengaluru North Zone Kabaddi (Men) Tournament held at A IT Bengaluru.

- 5) 1st place in VTU Bengaluru Inter Zone Kabaddi (Men) Tournament held at AIT Bengaluru.
- 6) Won 2 Gold, 2 Silver medals in VTU Weight Lifting, also secured 2nd position in VTU Weight Lifting Championship. Competition held at NITTE Mangalore
- 7) Won 1Gold medal, 1 Silver medal in VTU archery competition held at DBIT Bengaluru.
- 8) 1st place in VTU Bengaluru North Zone Table-Tennis (men) Tournament held at REVA ITM Bengaluru.
- 9) 4th place in VTU Bengaluru Zone Throw Ball (Women) Tournament held at SVIT Bengaluru.
- 10) 1st place in VTU Single Zone Net Ball (Women) Tournament held at GAT,Bengaluru.
- 11) Won 1Gold medal, in VTU Gymnastics competition held at KLS VDRIT, Haliyal.
- 12) Won 2 Bronze medals, in VTU Athletic Meet held at VTU Campus Belgaum.
- 13) 2nd place in BMSCE Volleyball (Men) Tournament

Staff Achievement

- 1) Physical Education Director was a selection committee member to select VTU Kabaddi (Men & Women) team to participate in South Zone inter University Competition
- 2) Physical Education Director was a selection committee member to select VTU Archery (Men&Women) team to participate in All India inter University Competition
- 3) Physical Education Director was nominated as Manager of VTU Kabaddi (W) team to participate in South Zone inters University Competition held at Kannur University Kerala.

Achievements in 2015-16

During the academic year 2015-2016, department of physical education and sports organized the following events in AIT campus. Some of them are as follows:

Organized

- 1) VTU Bengaluru Zone Kho - Kho (Women) Tournament
- 2) VTU Archery (Men& Women) single zone Tournament.

Achievement

- 1) 3rd place in VTU Bengaluru North Zone Cricket (men) Tournament held at REVA ITM Bengaluru.

- 2) 2nd place in VTU Bengaluru North Zone Soft Ball (Men) Tournament held at SJMIT Chitradurga.
- 3) 1st place in VTU Single Zone Soft Ball (men) Tournament held at SJMIT Chitradurga.
- 4) 1st Place in VTU Single Zone Softball (W) tournament held at SJMIT Chitradurga.
- 5) 3rd Place in VTU Bengaluru North Zone Handball (M) tournament held at Vijaya Vital IT Bengaluru.
- 6) 3rd Place in VTU Single Zone Handball (W) tournament held at GAT Bengaluru.
- 7) 1st place in VTU Bengaluru North Zone Kabaddi (Men) Tournament held at Sir. MVIT Bengaluru.
- 8) 1st place in VTU Bengaluru North Zone Kho - Kho (Men) Tournament held at RLJIT Doddabalpur.
- 9) 3rd Place in VTU Bengaluru Zone Kho - Kho (Women) Tournament at AIT Bengaluru.
- 10) 4th Place in VTU Inter Zone Kho - Kho (Women) Tournament at SKSCET Laxmeshwar.
- 11) 3rd Place in VTU Bengaluru North Zone Hockey (M) tournament held at RLJIT Bengaluru.
- 12) 4th Place in VTU Single Zone Kabaddi (W) tournament held at APSCE Bengaluru.
- 13) 3rd Place in VTU Bengaluru North Zone Basketball (M) tournament held at SVIT Bengaluru.
- 14) 3rd place in VTU Bengaluru North Zone (M) Chess tournament held at HKBK CE Bengaluru. Qualified for inter zone at SJMIT Chithradurga.
- 15) 1st place in Bengaluru North Zone Table Tennis (M) tournament held at BMSIT Bengaluru. Qualified for inter zone at AIT Chikkamangalore.
- 16) 2nd place in Bengaluru North Zone Table Tennis (W) tournament held at BMSIT Bengaluru. Qualified for inter zone at AIT Chikkamangalore and secured 4th place.
- 17) Secured 2 silver medals in Taekwondo (M & W) held at GCE Ramanagaram.
- 18) Secured 2 silver medals in Gymnastics (M) held at GCE Ramanagaram 1st place in VTU Single Zone Net Ball (Women) Tournament held at KLECET Chikkodi.
- 19) 4th place in VTU Single Zone Net Ball (M) Tournament held at KLECET Chikkodi.
- 20) Secured 2 Gold and 2 Silver medals in Weight Lifting (M) held at GAT Bengaluru. Also secured Runner up in Championship.
- 21) 3rd Place in VTU Bengaluru North Zone Throw ball (W) tournament held at NCET Bengaluru.

Achievements in 2016-17

During the academic year 2016-2017, department of physical education and sports organized the following events in AIT campus. Some of them are as follows:

Organized

VTU Bengaluru Zone and Inter Zone Volleyball (Women) Tournament.

Achievement

- 1) 3rd place in VTU Bengaluru North Zone Cricket (men) Tournament held at RLJIT Doddabalapur.
- 2) 2nd place in VTU Bengaluru North Zone Volleyball (Men) Tournament held at Sri Pillappa IT Bengaluru and qualified for inter zone.
- 3) 1st place in VTU Single Zone Kho - Kho (men) Tournament held at NCET Bengaluru and qualified for inter zone.
- 4) 2nd Place in VTU Bengaluru Zone Handball (W) tournament held BMSCE Bengaluru and qualified for inter zone and secured 4th place.
- 5) Secured 2 silver medals in VTU Athletic meet at Sir. MVIT, Bengaluru.
- 6) 3rd place in VTU Bengaluru Zone Kho - Kho (Women) Tournament held at CIT Gubbi and qualified for inter zone.
- 7) 2nd Place in VTU Bengaluru North Zone Football (M) tournament held at RLJIT Doddabalapur and qualified for inter zone.
- 8) 2nd place VTU single Zone Tennis (W) tournament held at PESCE Mandya.
- 9) 2nd place VTU Bengaluru North Zone Hockey (m) tournament held at RLJIT, Doddabalapur and qualified for inter zone.
- 10) 4th place in VTU Bengaluru Zone Chess (men) Tournament held at Vemana IT Bengaluru and qualified for inter zone.
- 11) 1st Place in VTU Bengaluru North Zone Badminton (M) tournament held at BMSCE Bengaluru and qualified for inter zone.
- 12) 1st Place in VTU Bengaluru North Zone Table Tennis (M) tournament held at RLJIT, Doddabalapur and qualified for inter zone. Secured 2nd runner up in Inter zone Table Tennis (M) tournament held at SIT Tumkur.
- 13) 3rd place in VTU Bengaluru North Zone Badminton (Women) Tournament held at RLJIT, Doddabalapur.
- 14) Secured 1 silver medal in Taekwondo (M) meet held at VDRIT, Haliyal.
- 15) 3rd place in VTU Bengaluru North Zone Throw Ball (Women) Tournament held at SVIT Rajanukunte.
- 16) 2nd place VTU single Zone Netball (W) tournament held at EWIT Bengaluru.
- 17) 2nd place in VTU Bengaluru Zone Softball (M) tournament held at DBIT, Bengaluru and qualified for inter zone.
- 18) 1st place in VTU Single Zone Softball (M) tournament held at DBIT, Bengaluru (VTU Champions).

- 19) Secured 1 gold 2 silver and 1 Bronze medal in Weight Lifting (M) Competition held at GAT Bengaluru. Also secured runner up in Overall championship.

Staff Achievement

- 1) Physical Education Director was Selection Committee member to select VTU Netball (Men and Women) team to participate in All India inter University Competition. Selection held at EWIT Bengaluru.
- 2) Physical Education Director was Selection Committee member to select VTU Softball (Men and Women) team to participate in All India inter University Competition. Selection held at DBIT Bengaluru.

Private Tournaments:

- 1) 2nd Place in REVA University Football (M) tournament held at REVA University Campus, Bengaluru.
- 2) 2nd Place in RVCE Football (M) tournament held at RVCE Campus, Bengaluru.
- 3) 2nd Place in RVCE Kho-Kho (M) tournament held at RVCE Campus, Bengaluru.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

The Institution has developed infrastructure as per the norms of AICTE, affiliating University VTU and Government of Karnataka. The infrastructure is augmented keeping in view of the growth of the institution. The following infrastructure is created in the last four years for providing additional facility.

Table 4.2 Details of infrastructure created and expenditure thereon

Details of infrastructure developed Area in sq.m.	Expenditure in Rs.			
	2013-14	2014-15	2015-16	2016 Till October
ANA Block	9543 sq.m.			
Expenditure in Rs.	5,112,607	8,190,715	6,422,216	986,444
ECE Augmented	1,320 sq.m			
Expenditure in Rs.			26,422,216	

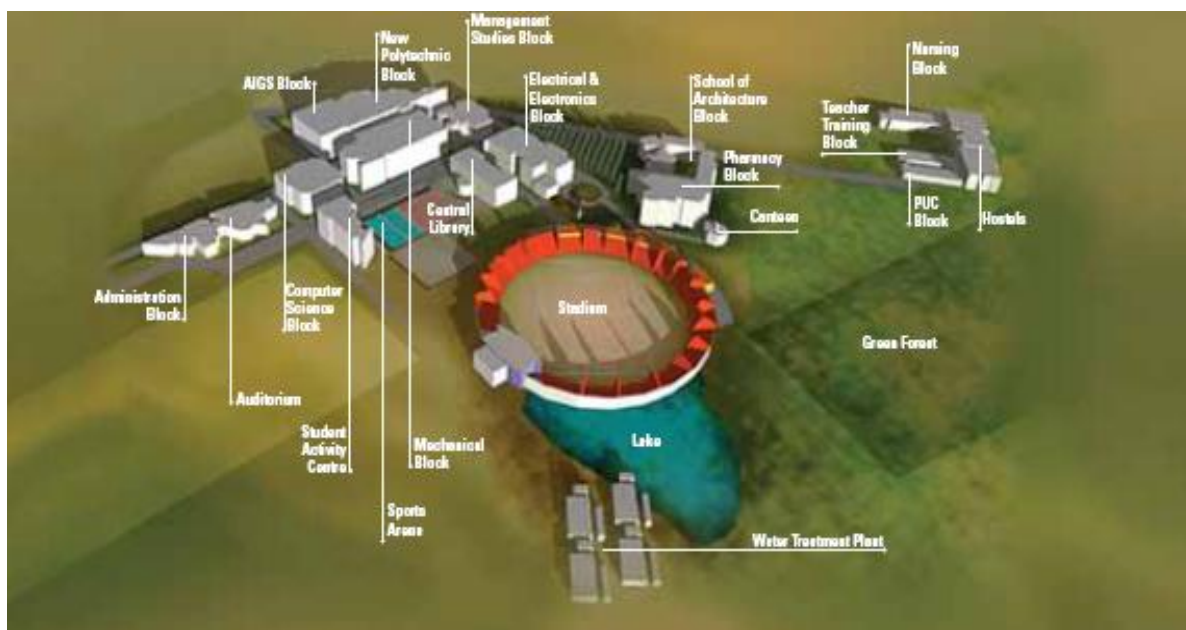


Fig 4.1 Birds eye view of the campus

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

Institution has provided ramps at appropriate entrance locations. Institution has made appropriate provisions in washrooms and class rooms and laboratories to provide the easy movement for physically disabled students. The library services the request of physically challenged student in the ground floor.

4.1.5 Give details on the residential facility and various provisions available within them

Hostel facility

The Institution has separate boys and girls hostels. The strength of hostel for boys' is 1000 (5980sq.m) and for girls hostel is 500(2498 sq.m). The hostels are provided with attached and common bath room facility, provided with drinking water facility with coolers, laundry facility, ironing facility, separate drinking facility for vegetarian and non-vegetarian, entertainment lounge facilities, visitor area with CCTV, Computer systems with Wi-Fi facility, two wheeler and four wheeler parking, common utility facility and guest room facility. It's a green environment all around. A reading room facility is provided in both boy's and girl's hostels wherein magazines, periodicals and newspapers are subscribed. Hostel is provided with 24x7 securities.

Recreation facilities

The indoor stadium with facilities for indoor games such badminton, table tennis, caroms, chess and boxing. The outdoor facilities for games such as cricket, football, hockey, throw ball, basketball, volleyball, khabadi, and kho-kho are provided. A well equipped gymnasium and horse riding club are also part of the recreation facilities. Yoga and meditation centre is provided in the indoor stadium.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

The institution has made arrangements for students/staff medical assistance. There is a provision of first aid/medical room with all the facilities required for medical assistance. The Institution has a residential doctor who is accessible for consultations and emergencies. The institution has a tie up with Sapthagiri hospital for medical treatment and emergencies. Students are insured under group in insurance scheme. An ambulance equipped with all life saving devices is available round the clock.

4.1.7 Give details of the Common Facilities available on the campus—spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement unit, Health centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

All the special units have office space which is accessible to all. Separate facility for healthcare, canteen and recreational spaces are provided. Safe drinking water is provided in accessible location in all the blocks. The auditorium with a seating capacity of 600 is used for academic, curricular and co-curricular activities. The departments also have seminar halls.

4.2 Library as a e-Learning Resource

4.2.1. Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/ user friendly?

Yes the library advisory committee is in place. It is formed last on 05 May, 2016 and its composition is

Sl. No.	Name	Designation
1	Principal, AIT	Chairman
2	Chief Librarian	Ex-officio Member
3	Faculty (one from each department)	Member
4	Students Representatives	Member one from each department
5	Librarian	Member Secretary

Following are the significant initiatives that have been implemented by the library advisory committee

- 1) Framing and updating of library rules and regulations.
- 2) Reviewing the indents received by the respective departments for procurement of book, journal and e-journal and the recommending the same for procurement.
- 3) Review of usage of library in terms of number of people visiting, book issue and return and use of e-resources and digital library facility.
- 4) Recommend the names on the committee for the annual library verification.
- 5) Review and recommend the list submit by the librarian for weeding out unused books over the years.

4.2.2 Provide details of the following

Total area of the Library	:	4,630 sq.m.
Total seating capacity	:	600
Working Hours	:	
a) Working days	:	9.00 to 17.00 hrs
b) Sundays and holidays	:	Closed
c) Before examination days	:	8.00 to 19.00 hrs
d) During examination days	:	8.00 to 19.00 hrs
e) During vacation	:	9.00 to 17.00 hrs
Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)	:	The Library has specified areas as indicated in the library layout drawing showing Fig 4.2.

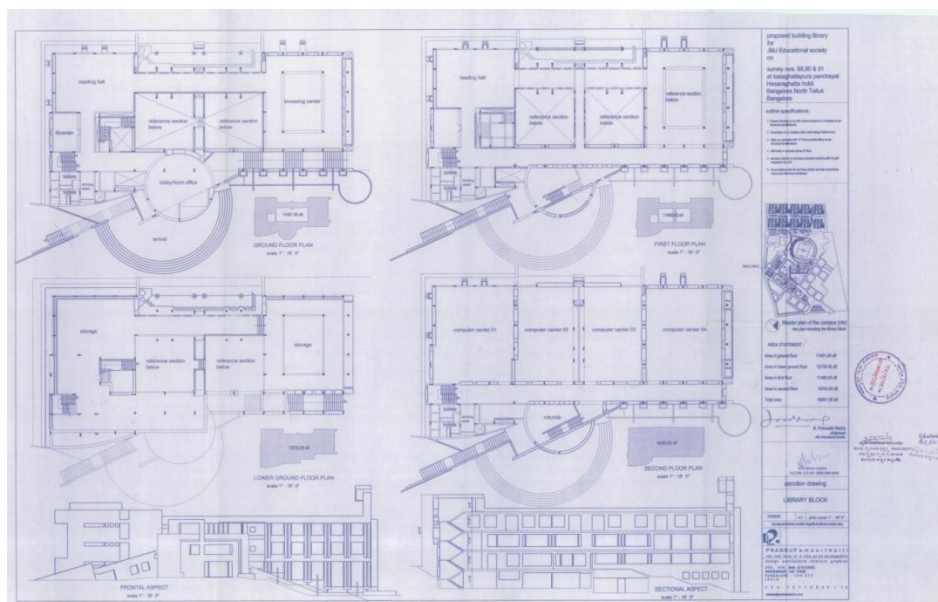


Fig 4.2: Layout of the library

The library has spacious reading halls, stack rooms, reference books section, circulation desk, property counter, internet facility center, periodicals section, mini-auditorium, OPAC terminals, photocopy section, technical processing section, binding section, librarian's office, help desk, hall of fame.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The library has evolved a system to ensure purchase of current titles, journals and e-resources. The list submitted by the departments for procurement is scrutinized by the library advisory committee and recommended for procurement. The librarian takes the approval for procurement from principal and calls for quotations. Negotiations are held with the suppliers and orders are placed. The books received are labeled with RFID and put for circulation. The fees for VTU e-resource consortiums paid as and when the demand is raised by VTU.

Table 4.3 Expenditure on procuring new books, journals and e-resources during the last 4 years.

Library Holdings	2013-14		2014-15		2015-16		2016-17	
	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)
Textbooks & Reference books	5,939	1,988,949	6727	2,370,449	6447	2,868,968	250	125,000
Journals/Periodicals	82	212,990	Not Procured		Not Procured		109	274,790
e-Resources	385	867,245	3,500	1,271,022	30,168	3,300,000	30,168	3,100,000

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

The various tools for access of library resources deployed are shown in Table 4.4

Table 4.4 Library resources deployment

OPAC	The Online Public Access Catalogue has been facilitated to the students and faculty for online access and reservation if required.
Electronic Resource Management package for E-Journals	There are seven licenses of different publisher to access the e-resource.
Federated searching tools to search articles in multiple databases	Kimbus tool is being used.

Library website	https://sites.google.com/site/aitknowledgecentre .
In-house / Remote Access to e-publications	In house access is provided through internet.
Library automation	Libsoft library software is used for automation
Total number of computers for public access	100
Total number of printers	02
Internet bandwidth / speed	130 Mbps and plans are on to have 1Gbps for the campus.
Institutional Repository	Established through Dspace Digital Library Software.
Content Management System for e-learning	The Library is planning to have content management system to deliver e-learning tools and source.
Participating in Resource sharing networks/consortia (like INFLIBNET)	<ol style="list-style-type: none"> 1. The institution is one of the members of VTU Consortia for accessing e-journals and other e-resources. 2. Institution is also a member of National Digital Library. 3. Digital books, e-resources on Career development, online courses like MOOCs, SPOCs, and SWAYAM, NPTEL Video lectures and all consortia are linked through library website.

4.2.5 Provide details on the following items:

User orientation programme for new comers in the month of August will be conducted every year. Two programmes for faculty conducted during 2015-16

Table 4.5 Library user data

Average number of walk-ins	350-400 per day
Average number of books issued/returned	250-300 per day
Ratio of library books to students enrolled	14:1

Average number of books added during last 3 years	2014-15	2015-16	2016-17	Average
	6727	6447	200	6371
Average number of login to OPAC	100-150 per day			
Average number of login to e-resources	50-75 per day			
Average number of e-resources downloaded / printed	20-25 per day			
Details of “Weeding-out” of books and other materials	Library withdraws books based on following three parameters. 1. Old edition books 2. Change in syllabus 3. Mutilated books			

4.2.6 Give details of the specialized services provided by the library

The special services rendered by the library to its users is given in the Table4.6.

Table 4.6 Specialized services rendered by the library to its users

Manuscripts	Nil
Reference	Reference service is provided to the readers. Separate reference section has been established in library.
Reprography	Photocopy facility has been out-sourced on the campus. scanning and softcopy document accessing services have been introduced.
Inter Library Loan Service	The library provides internet library loan service to requesting institutions and also is a member of DELNET for resources sharing.
Information deployment and notification	This is delivered via e-mail and posting relevant information on library website.
Download	The internet facility is given to the users and they are free to download educational material.
Printing	Printing service is facilitated to the users.
Reading list / Bibliography compilation	The bibliographic service is catered on request to the users. The bibliographies are generated through the library software LibSoft. The users can also refer the bibliography by using the Online Public Access Catalogue.

In-house / remote access to e-resources	The remote access to online journals is given to the faculty.
User orientation and awareness	The library conducts user orientation to the incoming students in the beginning of the academic year.
Assistance in Searching databases	Library staff provides assistance to search information from different databases/consortia of e-resources; search strategies are formed/developed for the convenience of the user.
INFLIBNET/IUC facilities	The library has subscribed to VTU Consortium

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

The support provided by the library staff to the students and faculty of the institution is in the form of:

- 1) Library services and information services from issue/return/renew of books, fact finding, reference services.
- 2) Library service is through issue of two from lending section renewable every fortnight and three books from book bank on semester basis, sufficient reading room facility is provided. OPAC search facility is extended.
- 3) Library staff to help readers trace the books and other relevant information.
- 4) Display of new arrivals to bring to the notice of users.
- 5) The new additions to the library are informed to the departments through e-mails.
- 6) Assistance in accessing the internet and online information.
- 7) Catering special service to rank holders (top5 of each semester of each course) by issuing additional three books from lending section.
- 8) Documenting previous question papers in e-form and giving access for down loading.
- 9) Procurement of reader-recommended books etc.
- 10) Information on search strategies is provided.
- 11) Research project assistance and bibliometric services.
- 12) Remote access facilities of e-journals under VTU Consortium.
- 13) Orientation programs and advisory/counseling services.
- 14) ILL and document delivery services.
- 15) Downloading and providing printouts.
- 16) Registration to national digital library facilities.
- 17) e-book repository.

4.2.8 What are the special facilities offered by the library to the visually/ physically challenged persons? Give details.

- 1) Service provided is personalized to the convenience of physically challenged students.
- 2) As a special case, all the physically challenged students are given sufficient number of books and also the extended loan period for borrowing the books.
- 3) Special assistance and guidance provided for differently challenged persons.
- 4) No waiting time for issue and return of books.
- 5) Wheel chairs are provided in different sections of the library.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

- 1) Yes, the library gets feedback both formal and inform always from its users.
- 2) Annual students' institutional feedback obtained covers suggestions regarding Library and Information Services; facilities, resources etc. The data collected is organized and the reports generated are placed before the library advisory committee and to the principal.
- 3) Also an exit interview is conducted by every department. The feedback received are consolidated by every department and submitted to the principal for further action to be devised by the library advisory committee.
- 4) A suggestion box is placed in the library which will be opened every month for taking required action.
- 5) The suggestions, complaints and requirements are noted down and accordingly the actions are taken to improve the service and facilities of the library.
- 6) Student representatives are on the library advisory committee and they also present/suggest students' needs and informed services /facilities. The feedback is listed discussed in the library advisory committee and directions of the principal are sought to readdress the grievances.

4.3 IT Infrastructure

4.3.1 Give details on computing facility available (hardware and software) at the institution

Number of computers with configuration along with LAN connection to Servers, number of printers, scanners and hardware, which are in use is listed in Table 4.7

Table 4.7 Computing facility

Systems	Quantity	Specifications
No. of computers with configuration	1199	Celron dual core
Computer student ratio	1:5	
Stand alone facility LAN facility Wi-Fi facility		All systems are on LAN facility
Licensed software	23	
No. of nodes / Computers with internet facility		276
Printers and peripherals	66	Including scanners and Xerox facility

Any other

- 1) Institution website displays the details of the institution with the courses offered, faculty, infrastructure available, the upcoming events in the individual departments and the information of the well performed/awarded students,
- 2) Backup facility is available for all the systems

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

ICT facilities are available for teaching – learning, research work, access to e-resources on net, e-journals in VTU consortia. HODs are provided with computer /printers with internet facility, while faculties are provided with sufficient computers connected to printers in the respective departments. Students are provided with wi-fi net facility across the campus. Wi-fi Facility is available in the premises of the institute as well as in hostels for internet access for both faculty and students.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- 1) Institute thrives to upgrade IT infrastructure and associated facilities
- 2) ICT infrastructure is extended and upgraded to meet the needs of the newly introduced programmes and courses.

The current plan of the institute is to:

- 1) Consolidate the existing facility and complete full computerization of the Library.
- 2) Increase number of computers and upgrade the software based on emerging needs.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)?

Table 4.8 Annual budget

Years	2013-2014 in (Rs)	2014-2015 in (Rs)	2015-2016 in (Rs)	2016-2017 in (Rs)
Computer and Accessories	2,400,000/-	2,500,000/-	6,918,424	4,715,960
Up gradation of software	1,400,000/-		1,000,000	1,300,000/-
Maintenance of Computers and other accessories	95,000	100,000	125,000	90,000

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- 1) The classrooms and seminar halls are provided with LCD projectors which enable the faculty to make the learning process more effective.
- 2) The soft copy of lecturer notes is mailed to the students by concerned subject faculty.
- 3) The Institution has adequate computer facilities for its faculty. In each department faculty members are provided with computers/laptops with internet browsing facility for preparation of teaching/learning materials.
- 4) Wi-fi connectivity and high speed network connectivity enables staff and students to access resources across the campus for teaching-learning, webinars, research and training.
- 5) The institution is having tie-up with Infosys to run the campus connect program in institution, training the students for industry requirements.
- 6) The institution is having e-library for accessing the online journals
- 7) The institution has subscribed for e-learning resources learning ware.
- 8) The laboratories are provided with LCD projectors with internet connectivity for facilitating multimedia teaching.
- 9) Library website provides links for better learning.
- 10) Important educational materials can be down loaded for better class room teaching.
- 11) Student's assignments as part of curriculum demands extensive use of ICTs for information consideration.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms / learning spaces etc.)by the institution place the student at the center of teaching – learning process and render the role of a facilitator for the teacher?

- 1) The institution encourages the faculty and staff to undergo training on the computer-aided teaching and training by conducting departmental seminars and workshops for
- 2) NPTEL video lectures and learning materials are available to the students and faculty members to download material for their learning.
- 3) The e-journal and e library facility, IIT video lectures are available for enhancement of knowledge.
- 4) The campus has fully enabled Wi-fi.
- 5) Well-equipped computer labs, LCD projectors and OHPs are available for conducting seminars, workshops, laboratory instructions, computer aided trainings, faculty development programmes and conferences.
- 6) Free Open Source Software for education is made available to the students to get certified by IIT Bombay, in different courses of open end softwares.
- 7) The department of computer science and information science facilitate self-learning portal called center for self-enhancement (CSE) and massive online course cell (MOOC) which are a free online courses of COURSERA, UDACITY, NPTEL, EDX etc. for the students in the campus.
- 8) To place the students at the center of teaching learning process the students are encouraged and trained in basics of ICT resources. The PG students make ICT enabled presentation in the class as part of their assignments and also use ICTS in their assignments and projects.

4.3.7 Does the Institution avail of the National knowledge network connectivity directly or through the affiliating university? If so, what are the services availed of?

National knowledge network connectivity is done through affiliating university and the facilities available are through library membership.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Optimal utilization of funds allocated are ensured towards maintenance of campus facilities, considering the increase in intake and other academic requirements, many new blocks having spacious and well planned/furnished ideal classrooms have been constructed.

Table 4.9 Proposed budget for the maintenance of facilities (Amount in Rs.)

Items	Budget 2016-2017	Budget 2015-2016	Budget 2014-2015	Budget 2013-14
Buildings	2,000,000	30,000,000	9,000,000	6,500,000
Furniture	4,000,000	15,000,000	1,200,000	4,500,000
Equipment	1,000,000	5,000,000		
Computer	5,000,000	10,000,000	3,500,000	11,000,000
Software	5,000,000	1,500,000	2,200,000	800,000
Vehicles	15,000,000	7,500,000	18,000,000	1,200,000
Garden Maintenance	225,000	200,000	125,000	125,000
Total	24,525,000	82,700,000	3,402,5000	34,925,000

Table 4.10 Expenditure for the maintenance of facilities (Amount in Rs.)

Items	Expenditure 2016-2017 Till October	Expenditure 2015-16	Expenditure 2014-15	Expenditure 2013-14
Buildings	312,224	26,422,216	890,715	5,112,607
Furniture	3,668,302	12,659,065	993,060	3,846,306
Lab Equipment	322,148	2,517,190		
Computer	4,715,916	6,918,424	2,809,541	9,859,780
Software's		14,235,659	1,742,814	559,186
Vehicles	12,212,521	5,800,748	16,646,553	10,435,040
Garden Maintenance	1,267,938	156,157	110,563	112,666
Total	11,507,780	57,316,299	30,493,246	29,925,585

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the College?

Infrastructure facilities

Maintenance Department carries out the maintenance of infrastructure by periodical inspection, repair and painting.

Greenery Stretches are maintained inside the campus with more than 250 species of plants and herbs.

Laboratory equipment

Laboratories are maintained with proper maintenance schedules, breakdown routines and planned maintenance

Computers

Computers are maintained by the System administrator. Inspection and servicing activities are carried out once in a semester.

Vehicles

Vehicles of the institute are serviced and maintained by the motor department well as external agencies at regular intervals of time.

Housekeeping

Up keeping the campus requirements in terms of cleaning, maintaining the gardens and greenery is done by the house keeping department.

Security

The security department takes care of campus security.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment / instruments?

- 1) The equipment/instruments are maintained by the respective departments.
- 2) Calibrations of the equipments / instruments are done through certified external agencies once in two years.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

A well established maintenance department takes care of the sensitive equipment. Following are the major steps:

- 1) Periodic inspections are carried out by the maintenance department and other supporting services/departments to protect sensitive instruments from mechanical and electrical damage.

2) Annual maintenance contract is given to eligible contracting agencies to maintain Generators and UPS.

3) Suitable voltage stabilizers and voltage regulated transformers are installed to control voltage fluctuations and UPS to protect from possible damage.

Table 4.11 shows the installation details.

4) Constant water supply is ensured across the departments by drawing groundwater. Suitable treatment units are provided for drinking water usage. Rainwater harvested lake and the treated effluent water meets the continuous demands for the garden maintenance. Certain blocks are augmented by procuring bottled drinking water to enhance continuance supply.

Table 4.11 Details of power supply systems

Item	Description	Numbers	Location
Transformers	500KVA (campus)	1	Behind AIGS
	800KVA (campus)	1	Behind AIGS
	750KVA (Hostel)	1	Behind Nursing
Generators	200 KVA	1	At HKG hostel
	125 KVA	1	Architecture
	62KVA	1	CPRD
	62.5KVA	1	STP
	50 KVA	2	MBA & CS/IS
	40 KVA	1	HKG hostel
	25 KVA	2	Admin & E C/EE
	100KVA	1	Mechanical
UPS	30 KVA	6	AES-02, IS/CS- 04
	20 KVA	6	MBA/MCA-2 Mech-02, Civil-01, CPRD-1
	10 KVA	5	EC-03, MBA-02,
	15 KVA	1	Mech-01
	7.5 KVA	2	Admin
	3 KVA	3	AES-02, Post office-01
	2 KVA	3	MBA-01, PSR Builders-01,

- STP Plant of capacity 300KLPD has also been established in the campus.

Criterion V: Student Support and Progression

5.1. Student Mentoring and Support

5.1.1. Does the institution publish its updated prospectus/handbook annually? If ‘yes’ what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, every year updated handbook is published. The hand book contains the information about the institutions, the code of conduct and calendar of events. This information is also hosted in the website of the institution: www.acharya.ac.in.

Salient Features in the Handbook

Vision and values of institute, guidelines of the campus plan and necessary bus routes to reach the campus, information related to the admissions, academics, sports and cultural activities. Services provided to international students, like health, counseling, accommodation etc. Instructions to international students regarding registration, renewal of registration, visa, attendance, change of address provided. Student amenities like Smt. Nagarathnamma stadium, horse riding, gymnasium, yoga, auditorium, conference hall, board room, food courts. Information about acharya website, e-bulletin, banking services etc.

- 1) Placement assistance: Placement process, placement eligibility criteria, placement policies, pre- placement talks, workshops and mock interviews etc.
- 2) Accommodation: Guidelines for hostel allocation, general rules and procedures, use of computers in hostel, discipline, damages and recovery, procedure to vacate, health care, vacations, special rules for foreign residents in hostels, payment of hostel dues, information on personal safety tips and laundry usage.
- 3) Transportation facilities with the route numbers.
- 4) Mentor system, objectives of mentor system, duties and responsibilities of the mentor and students under mentor system.
- 5) Scholarships and free ships
- 6) Alumni association and programs
- 7) Department profiles
- 8) Anti-ragging policies, prevention on sexual harassment

The institution takes maximum care and meticulous plans to ensure that the facilities are made available to the students. The institution ensures its commitment and accountability

through its transparent admission process, augmentation of facilities, student centric process and taking measures towards holistic development of the students.

5.1.2 Specify the type and number of scholarships/free ships given to students (UG/PG/others in tabular form) by the college management during the last four years. Indicate whether the financial aid was available on time.

AIT management provides scholarship to UG and PG students based on their financial background and their performance in academics. Fee concession is given to low economic group and needy students. Children of employees (served over five years) are also given fee concession. While it is 50% for the first child and 25% for second child. The number of beneficiaries and the amount of scholarship dispersed is shown in table 5.1.

Table 5.1 Scholarships awarded by institution management

2012-13		2013-14		2014-15		2015-16	
No. of students	Total Amount in Rs	No. of students	Total Amount in Rs	No. of students	Total Amount in Rs	No. of students	Total Amount in Rs
14	593,690	23	1,787,950	55	4,370,150	215	22,663,108

Apart from the said scholarships the students receive scholarship from social welfare departments, GOK, merit cum means scholarships from GOI. The number of beneficiaries and the amount of scholarship received is shown in the Table 5.2

Table 5.2 Scholarship /free ships given to the students

Scholarship/ Fee Concession Schemes	2012-13		2013-14		2014-15		2015-16	
	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Amount Sanctioned
Taluk social welfare office [below 2.5 lakh] for SC [UG & PG]	215	938,6510	212	8,652,280	244	10,928,53 0	252	11,718,730
Taluk social welfare office [below 2.5 lakh] for ST [UG & PG]	10	390,290	58	2,713,170	66	3,165,410	47	2,316,340
DTE scholarship [Above 2.5 lakh] for SC [UG & PG]	0	0	33	1,125,120	45	1,557,600	45	1,422,730
DTE scholarship [Above 2.5 lakh] for ST [UG & PG]	0	0	12	419,580	19	666,460	21	687,515

Scholarship/ Fee Concession Schemes	2012-13		2013-14		2014-15		2015-16	
	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Total Amount Sanctioned (in Rs.)	Total No. Students	Amount Sanctioned
Karnataka Minorities Development Corporation	27	1,059,620	45	1,874,750	59	2,443,740	47	
OBC Scholarship [UG & PG]-BCM Scholarship	21	11,834,480	854	13,604,690	630	13,324,975	1128	22,240,890
Defence Scholarship	47	1,453,915	45	1,478,775	36	1,172,675	0	0.00
AICTE- J&K Scholarship	0	0	2	66,000	2	66,000	3	111,000
Prathibha Puraskar- DTE	1	36,090	2	72,180	2	72,180	2	79,090
Kitthur Rani Chennamma Prathibha Puraskar	2	39,180	2	39,180	2	39,180	1	36,090
Total	1123	24,200,085	1265	30,045,725	1105	33,436,750	1546	39,805,285

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

The financial assistance received through various scholarships is shown in percentage of beneficiaries as given in Table 5.3.

Table 5.3 Financial assistance year wise

Type of financial assistance	Percentage of students received financial assistance			
	2012-13	2013-14	2014-15	2015-16
State Government	93.28	94.59	95.72	98.78
Central Government	6.27	5.04	3.98	0.91
Other national agencies	0.45	0.37	0.30	0.31
Total	100.00	100.00	100.00	100.00
Type of financial assistance	Number of students received financial assistance			
	2012-13	2013-14	2014-15	2015-16
State Government	1073	1214	1063	1540
Central Government	47	47	38	3
Other national agencies	3	4	4	3
Total	1123	1265	1105	1546

Table 5.4 shows the breakup of the scholarship dispersed for the number of male and female students and the amount thereof.

Table 5.4 Scholarship details year wise

Year wise	No. students who have received scholarship		Total No. students who have received scholarship	Amount Scholarship [in Rs.]		Total Amount sanctioned [in Rs.]
	M	F		M	F	
2012-13	875	221	1096	18,003,650	5,183,995	23,187,645
2013-14	955	258	1213	21,491,300	6,547,685	28,038,985
2014-15	1014	299	1313	27,978,310	8,445,735	36,424,045
2015-16	1091	409	1500	27,907,640	10,951,035	38,858,675

5.1.4 The specific support (or) services/facilities available for Students from SC/ST, OBC and economically weaker sections

The following scholarships are available for SC/ST, OBC and economically weaker sections are shown in Table 5.5

Table 5.5 Scholarship/support services extended to the students

Name of Scheme	2012-13		2013-14	
	Total students	Total Amount Sanctioned Rs	Total students	Total Amount Sanctioned Rs
Fee Concession for OBC (Cat-I, 2A, 3A & 3B) students	821	11,834,480	854	13,604,690
Fee Concession for SC students whose parental income below 2.50 lakh	251	9,386,510	212	8,652,280
Fee Concession for ST students whose parental income below 2.50 lakh	10	390,290	58	2,713,170
Fee Concession for SC students whose parental income above 2.50 lakh	21	68,2340	33	1,125,120
Fee Concession for ST students whose parental income above 2.50 lakh	5	166,400	12	419,580
Fee Concession for the dependents of Defence personal	47	1,453,915	45	1,478,775
Kittur Rani Channamma Award	2	39,180	2	39,180
Total	1157	23,953,115	1216	28,032,795

Name of Scheme	2014-15		2015-16	
	Total students	Total Amount Sanctioned Rs	Total students	Total Amount Sanctioned Rs
Fee Concession for OBC (Cat-I, 2A, 3A & 3B) students	630	13,324,975	1128	22,240,890
Fee Concession for SC students whose parental income below 2.50 lakh	244	10,928,530	252	11,718,730
Fee Concession for ST students whose parental income below 2.50 lakh	66	3,165,410	47	2,316,340
Fee Concession for SC students whose parental income above 2.50 lakh	45	1,557,600	45	1,422,730
Fee Concession for ST students whose parental income above 2.50 lakh	19	666,460	21	687,515
Fee Concession for the dependents of defence personal	36	1,172,675		
Kittur Rani Channamma Award	02	39,180	01	36,090
Total	1042	30,854,830	1494	38,422,295

SC/ST and OBC Students

- 1) Set of books are given to SC/ST and OBC students every year from book bank.
- 2) Economically weaker sections are permitted to pay fees in installment.

Students with physical disabilities

- 1) They are allowed to sit in first row of the class room to have a clear view of the board.
- 2) Library book issue on call at the ground floor/entrance to the library.
- 3) Seating arrangements made in the ground floor during university examinations.

Overseas students

For overseas students the following facilities/services are available.

- 1) Assistance for Foreign Regional Registration Office(FRRO)
- 2) Foreign students are introduced to Indian culture.
- 3) Sessions on FRRO rules, traffic rules
- 4) Assist them to know about Bengaluru and important places
- 5) Facilitate them to open bank account
- 6) Guide them to get the local Sim card for mobile phones.
- 7) College keeps tab on the student visa and R.P dates and assists them to renew them on time.

Acharya Institute of English and Foreign Languages (AIEFL) caters to the linguistic needs of students across the world. Foreign students admitted at AIT undergo English courses before joining the academic program. This helps foreign students to be with main stream students and perform better in their program.

Students to participate in various competition/National and International

Sponsorships offered to students to participate in various competitions/conference/workshops state, national and international level.

1) Medical Assistance to Students

Health centre facility, health insurance, ambulance service

2) Organizing Coaching Classes for Competitive Exam

Acharya education services have a tie up with Manhattan review and ELTS to conduct GRE, TOEFL, IELTS examinations. The communication skill training and online materials are provided to students. All students are motivated and guided by faculty members to appear for the GATE exams and help them to identify the programmes and institutions where they can apply for higher education, question bank for GATE are also maintained in the library. Special lectures are arranged by experts for appearing civil services competitive examination.

3) Support for Slow Learners

The result analysis team of each department identifies the slow learners based on their previous semester result, current semester attendance and performance in internal assessment examinations. A group of senior faculty consisting of head of the department and department academic cell. Members interacts with these students to know about their problems and advice them accordingly.

The following measures are taken to help slow learners

- 1) They are advised to attend classes regularly, and meet the concerned faculty at regular intervals for doubt clarification.
- 2) Mentors monitor the attendance, performance of slow learners and advice accordingly to ensure progressive learning.
- 3) They are educated about MOOC cell which has a huge repository of lecture videos on a number of subjects by experts across the globe. Students are advised to use these videos for better understanding of the subjects.
- 4) The slow learners are usually unable to weigh the relative importance of different topics unless explicitly told or shown what is important and what is not. Hence study materials in the form of question bank are provided to slow learners. The question bank includes details about the number of times a particular question is repeated in university examination.
- 5) Faculty is instructed to brush up the topics discussed in last class for 5 minutes before they start and also summarize the contents at the end of the class.
- 6) Learning from peer is also encouraged in lab sessions.
- 7) Tutorials and manuals are provided to students.
- 8) Remedial classes are conducted to slow learners.

Exposures of students to other institution of higher learning / corporate business houses / etc.

AIT has signed MoUs with institutions of higher learning abroad and in India as shown in Table 1.1. Table 5.6 shows internships and projects carried out at Old Dominion university.

Table 5.6 Old Dominion university internships and projects

Year	Project Name	Students
2012-13	Secure data collection in WSN using randomized dispersive routes	Bharath B S, ChetanR, Nagdev Amruthnath , Viraj Karjol
	Water marking for video streaming	Prachi Sharma
2013-14	Balancing security and performance for enhancing data privacy in data warehouse	Vishnu B
	Cross layer energy efficient routing (xle2r) for prolonging lifetime of WSN	Surabhi Shankar, Sidharth C
	Resource aware preemptive job scheduling under a deadline	Nischay C

Year	Project Name	Students
2014-15	Design and evaluation of en-leach protocol for WSN	Hamdan, Poshan
	Jarvis	Darshan shah , Parth Sharma
2015-16	Energy consumption analysis using green cloud computing	Sayantana Ghosh
	Improving the performance of hadoop by restructuring the map-reduce program	Kavyashree S P
	Markata	Utsav and team
	Ctrl+h	Tanmay
	Stair climbing robot	Ankush and team
	Lifi	Geena and team
	Vibgyor (one)	Arjun Dattar
	Segmentation of microscopic images	Varsha Ravi
2016-17	Paper batter	Aditya. R
	Sixth Sense	FazalalFathima, Ivani J G Pequenino
	Advanced light detection	Nirup Darshan,Mahim .K, Chirag D.K ,Aditya Das
	Snake bot	Mohit B Javali
	Sponsored by Prof.Ajay	ArjunJois

In 2014, Acharya had MoU with SASKEN Company, and has established SASKEN – Acharya Innovation Laboratory (SAIL). Interdisciplinary students are grouped together and the projects are assigned to them under the guidance of SASKEN employees and college faculty. It undertook the following projects in the year 2014-15.

Object Locator : A Nishant and team Mobile Glass : Madhu S and team
MWB Hearing Aid : Hari Krishna and team I See You : Biradar P. and team
Master Hub : Himanshu and team

Publication of Student Magazines

The purpose student's magazine is to facilitate students to express their thoughts and ideas freely. They are managed by the student editors, the magazine includes student write ups,

awings technical facts etc. Student magazines being published regularly and indicated in Table 5.7.

Table 5.7 Student magazines

Department	Magazine
Biotechnology	Illuminati
Computer Science and Engineering	Magnum opus
Electronics and Communication Engineering	Spectrum
Information Science and Engineering	Prasthita
Master of Computer Applications	E-disha
Mechanical Engineering	Momentum
Mechatronics Engineering	Times of Mechatron

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills among the students and the impact of the efforts.

Efforts made by the institution to facilitate entrepreneurial skills among the students

Institute has IBM incubation cell to convert innovative ideas into products. To encourage entrepreneurial skill institute has started TBI, to nature and leverage innovative minds in embracing on sustainable business.

Objectives

- 1) To foster innovative ideas and support sustainable growth
- 2) To create a viable entrepreneurial ecosystem
 - i. Acharya Institute of Technology has set up an IBM Incubation cell during October 2010 which was inaugurated by the then IT & BT secretary, government of Karnataka wherein several ideas incubated and graduated out of the same.
 - ii. Several ideation fests have been organized by our institution to foster growth of start-ups and entrepreneurs.
 - iii. Entrepreneurship awareness workshops are organized by all departments as part of their forum activities.
 - iv. Institution has organized several networking events to help the entrepreneurs to connect and collaborate with technology professionals, mentors, investors, etc.

- v. Entrepreneurship development programs are organized at regular intervals and speakers who are entrepreneurs themselves are invited to deliver talks. Recently programs are organized in the areas of cardiac design labs, hardware accelerator and other entrepreneur delivered talks.
- vi. Students and alumni of Acharya Institute of Technology are invited either to participate in such entrepreneurship development programs or if they are already entrepreneurs, they are invited to share their experiences.
- vii. Participating in networking events conducted by external agencies.
- viii. Networking with NGOs and SHGs
- ix. Networking with industry associations like Peenya Industrial Association, ASSOCHAM, FICCI, IESA, etc.
- x. MoU with SASKEN laboratories.
- xi. MoU with MOOC Technologies.
- xii. Acharya IPR Cell under KSCST has been set up in our campus.
- xiii. Acharya Internal IPR Policy has been formulated.

Impact of the efforts

A good number of student projects have been undertaken under the SASKEN innovation laboratory

Some of the noteworthy ones are mentioned below.

- 1) 4KUHD- Modify the existing H.265 codec to make it efficient in terms of Power and resolution for UHD TV's
- 2) Audio analysis- to extract the information and meaning from audio signals for analysis, classification, storage in the development of new audio-related products and services.
- 3) I See You- a Java based GUI that can be used to locate persons
- 4) RFID-range extender by developing RF repeaters
- 5) Master hub - a low cost universal master hub device that can be used for multiple applications
- 6) Mobile hearing aid-Mobile phone based body ware digital hearing aid (MBW) device
- 7) ANNOVIL- Vehicle to vehicle communication through light
- 8) Object locator- a low cost object locator device that can be used for multiple applications
- 9) Mobile Glass- android application that can be used as reading glass/ magnifying glass
- 10) Lane departure detecting system in highway

Some of the successful enterprises incubated under the IBM Acharya Incubation Centre are:

- 1) INFOBOUTIQUE - Fully incubated and product launched in the market
- 2) TECHNOCRAT - Incubation done at Acharya Incubation Centre
- 3) CODE PIP - Incubation done at Acharya Incubation Centre
- 4) ATOM ROBOTICS - Incubated by Mechatronics Engineering students and robot called Jarvis sent for Patenting
- 5) SKY IMAGINATIONS - one developed by Mechatronics Engineering student and one being used commercially
- 6) MAVITRONICS –Student's from Mechatronics who successfully developed a 3D printer and for which they have won several national prizes

Some of the projects have been taken for commercialisations with various industries are as follows:

- 1) 3D Printer
- 2) Automated coir-player
- 3) Multipurpose wheelchair for Neurologically Disabled People
- 4) Development of noise contour for Bangalore city
- 5) In Vitro Ant diabetic Study by Glucose uptake assay on Skeletal Muscle cell line and Glut4gene expression studies
- 6) Auto irrigation based on IOT
- 7) Floating solar panel
- 8) Prototype of UAV for agricultural applications
- 9) MUD concrete block using C and D waste

Collaboration with Foreign Universities to Enhance and Encourage Entrepreneurship

Acharya Institutes has MOU's with the following universities in the areas of student and faculty exchange, research collaboration, internships, joint programs etc. to enhance Entrepreneurship among the student as shown in Table 1.1. Under these MoUs our students are engaged in research projects under the mentorship of the foreign university and the same is completed in a period of about 8-10 months and finally the best students are selected to do an internship at the respective university. Last 13 students went to ODU, 14 students went to Carleton University and 15 students went to Lubeck, Germany. This year also, 13 students are to do an internship at ODU and about 30 students to do an internship at Northern Illinois University.

Some of the students who have done exceptionally well in their research are being funded by those universities to continue their research, e.g. one developed by our MT student.

BOX-ACHARYA INSTITUTES TECHNOLOGY BUSINESS INCUBATOR

BOX-Acharya Institutes Technology Business Incubator (AITBI) has been established at our campus to nurture and outreach knowledge based technology in innovative ideas, support sustainable growth to develop socially responsible entrepreneurs. The mission is to provide entrepreneurial ambience, mentorship and outreach, to foster innovative thinkers for entrepreneurial venture and to extend all possible assistance to them as well as the society in all aspects of wealth generation, employment creation and social impact.

BOX-AITBI would provide an end-to-end cutting edge ecosystem that supports new and emerging technology ventures and enhance their likelihood of success. The proposed incubator renders necessary infrastructure, financial support, business advisory, mentoring, legal assistance, product development, networking, commercialization, protecting intellectual properties, insurance, and tax administration resulting in strategic alliances.

5.1.6 Enumerate the policies and Strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, quiz competitions, debate and discussions, cultural activities etc.

The institution has the policy to identify and nurture the talents among the students. At the beginning of the every academic year during induction program students are apprised about facilities and opportunities to exhibit their talent by participating in extracurricular and co-curricular activities. Also scheduling the events are sent through circulars and campus network e-news. Strategies for scouting and nurturing the talents in sports, cultural activities and debates/discussions and quiz/competition are by holding institutional level competitions and also by participating in other institution program. Following are some of the strategies adopted to promote students participation in extracurricular and co-curricular activities.

- 1) Students are allowed to participate in various intra and inter institution competitions like, technical quiz/symposiums to develop their competition skills.
- 2) Various sports activities are well published on the notice board and campus news e-network. The interested students are subjected to selection process, talented and eligible students are encouraged to improve the skills and participate in different events. Students after getting medals are honored/acknowledged through institution website and News Acharya
- 3) Every department on campus has a forum and here technical skills, technical competitions like robo soccer, technical seminar, debits, paper presentation, guest lecture etc. are organized.

- 4) Cultural events are regularly planned within the university level and inter institution. After proper rehearsal different groups are identified to participate and represent at the inter institution and university level youth festivals.
- 5) The department of physical education and sports has six dedicated sports teachers for different kinds of games and organize many sports events.
- 6) Tennis court, basketball court, cricket stadium, volley ball, badminton, table tennis, kabaddi, kho-kho, shuttle badminton, weight lifting and power lifting, softball, archery and indoor games facilities are available on campus. Horse riding training is given for the interested students. College has multipurpose stadium with a seating capacity of 20,000 which caters to events like cricket, football, hockey, softball, handball and athletics.
- 7) The department faculty and student representatives from cultural committees. This committee will identify students having interest in cultural activities and encourage/support them to participate in the institution day function/other institution.
- 8) Seminar halls and auditorium are available for performing events.

Additional Academic Support, Flexibility in Examinations

- 1) Students represented state/nation at junior level is given scholarships during admissions.
- 2) Attendance benefit is given to students as and when they represent the Institution, university or national level sports as well as Cultural events.
- 3) Special classes and makeup internal assessment tests are conducted for those students who tend to miss their regular academic classes on account of extracurricular and co-curricular activities.

Special dietary requirements, sports uniform and materials

Special dietary requirements, sports uniform and materials are provided, during practice and match sessions.

- 1) Uniforms and ID cards are provided to all sports teams representing the institution.
- 2) Sports materials and kits are provided whenever necessary.
- 3) During matches, TA and DA are given as per the norms fixed by sports committee of the Institution.

Any other

- 1) Every year, for first year students science department conducts “Science Forum” in which students are allowed to participate in events like quiz, poster presentation, fun with maths, mathematical modeling.

- 2) Each department has a association namely forum- Lakshya, Spectra etc., which conduct various programs like technical quiz, collage etc. This helps students to gain confidence in communication, organizing capability, budgeting, leadership, fund management, and team building.
- 3) Every year kreedahabba is celebrated as a part of achaya habba, where maximum students participate in athletics and in games like volleyball, basketball, chess etc.
- 4) To encourage cricket interest among the students, Acharya Premier League (APL) is conducted by the institution with cash prize of Rs.1Lakh for winning team.
- 5) Every year acharya habba is celebrated in the month of March.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE/ CAT/GRE/ TOFEL/GMAT/CENTRAL/ State services, Defense, civil services, etc

Yes

- 1) The institution encourages and motivates students for various competitive examinations and facilitates guidance / coaching by professional agencies. The students who opted for higher studies and not opting for campus placement are trained with different competitive exams such as GRE/ TOFEL/GMAT/CENTRAL/ state services, defense, civil services, etc.,
- 2) The institution has set a benchmark in language training and helps learners to acquire an effective communication level. College conducts courses in english and foreign language which are very useful to students who wish to pursue higher studies.
- 3) Information to students is disseminated through circulars, group mails and Notice Boards

The number of students falling under any of the above competitive exams is given in Table 5.8.

Table 5.8 Number of students appeared and qualified in competitive examinations

Year / Title	GRE	GATE	TOFEL	IELTS	DEFENSE	PGCET
	Qualified					
2012-13	11	0	3	0	3	29
2013-14	14	2	1	0	0	24
2014-15	8	5	4	9	7	27
2015-16	13	6	4	10	0	17

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social) etc.

Acharya Institute of Technology has a very strong system of mentoring to provide student's a sense of security, bonhomie, guidance for academic and personal needs. A mentor, a member of the faculty, so entrusted with the responsibility, pays personal attention to and monitors student's academic progress in institution hours and behavioral process outside the campus. Management motivates and enables a student to look to his mentor as a patriarchal/matriarchal figure, guide and philosopher by the process which enriches the interaction so essential for the academic ambience embellished with a human touch.

A mentor records personal data of each student including parent contact details, regular attendance and academic details, communication details into a software specially designed by the institution "Acharya Institutes Proctorial System". The chief mentor, head of the department, principal can view details of a student through AIPS at any time and offer required support. This helps to closely monitor student's progress in terms of his/her attendance, punctuality, academic performance and learning capabilities. Also it helps to identify, outside the curricular requirements, the student's habitual deviations and attitudinal aberrations, utilization of facilities and associative growth of personal attributes.

The system provides an early warning through the mentor's feedback on a periodic basis to the parents/guardians, heads of departments, course coordinators, principal and management on classified needs for their intervention and mid-course corrections. The mentors, counselors, conduct psycho-social counseling. Grievances pertaining to gender discrimination and socio-economic problems are addressed by the institution.

Allotment of Mentors

- 1) When a student reports in first year he/she will be allotted with a mentor.
- 2) A group of around 20 students will be allotted to one mentor.
- 3) All girl students are allotted to lady faculty only.
- 4) All students from a state/ country will not be with one mentor to have spread of the group.

Regular Communication Process

- 1) Each mentor meets all his wards fortnightly at a pre specified time slot in regular time table.
- 2) Parents are informed about attendance, internal assessment marks by the mentor.
- 3) An SMS/ mail is also sent to the parents/guardians with these details.

- 4) In case of repeated nonperformance the mentor speaks to the parents discussing the learning disabilities of the student
- 5) All communications with parents/guardians are recorded in AIPS.

Special Case communications

- 1) If a ward is found to be irregular in attendance, immediate call will be made to parents.
- 2) If a ward is found to be below average in academic performance mentor will counsel him/her for study style, material, subject teacher guidance etc.
- 3) If necessary, parents will be called to meet hod / chief mentor and take corrective measures.

In short, system of mentoring provides the parents/guardian a single window source of information about their ward through mentor and expects parents/guardian to contact mentor for any support regarding academic needs of their ward.

For career growth of the students' chief placement officer of the institution plays an exemplary role. Besides his regular role as placement liaison officer, he frequently visits each and every class to motivate and counsel students in the career aspect. He explains in detail in clear the career prospects, preparation and career development activities. Necessary training programs in soft and other skills development are arranged under the aegis of placement cell which includes experts from industry as trainer.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes.

The institution has a structured organized training and placement cell. A large number of reputed companies in various domains visit the institution for recruitment. This has been made possible by specific training, skill based trainings through outsourced agencies and in house training.

Career guidance

Batch wise all the students are provided with intense and multidimensional career guidance throughout the course duration. Professional organizations and consultants/experts in higher education are conducting seminars and counselling the sessions, group wise. Special

emphasize is given to induce students to undertake higher education in forms of master degree, doctoral degrees in India and abroad.

Training and Placement facility

The placement at Acharya campus is a dynamic, real-time process which is inclusive, proactive, ambitious and wholesome. The placement process is constantly tuned based on industry need and feedback. The placement cell monitors the employment opportunities and arranges campus recruitment process interviews for the final year students and provides internship opportunities for pre-final year students. A dedicated training and placement cell working round the year to provide efficient, effective training and employment opportunities for all the students. Acharya Institute of Technology has an exclusive training department which takes care of the training needs of all its departments. The training imparted includes aptitude, communication, analytical reasoning, problem solving along with the basic etiquettes along with domain training. Number of domain training programmes and placement training programs conducted for past 4 years are shown in Table 5.9 (a) and 5.9 (b).

Table 5.9 (a) Number of domain training programmes conducted for past 4 years

Year / Branch	AE	AU	BT	CSE	CTM	CV	ECE	EEE	ISE	ME	MI	MT	MBA	MCA	M.Tech
2013-14			2	3			4	4	2	4		2		11	1
2014-15	2	3	2	5		3	5	3	4	3		4	1	2	3
2015-16	5	5	4	6	3	3	6	6	6	5	2	6	1	2	
2016-17	1	1			2	2	4	2		1					1

Table 5.9 (b) Number of placement training programmes conducted for past 4 years

Year / Branch	AE	AU	BT	CSE	CTM	CV	ECE	EEE	ISE	ME	MI	MS	MT	MBA	MCA
2013-14	1		1	1		1	1	1	1	1		1	1	1	2
2014-15	11	11	11	11	11	11	11	11	11	11	11	11	11	1	9
2015-16	10	9	9	10	9	9	10	11	9	10	8	8	9		6
2016-17	8	8	8	8	8	8	8	8	8	8	8	8	8	4	6

The number of placements for both under graduate and post graduate students through campus recruitment for last 4 years are shown in Table 5.10.

Table 5.10 Placement record for last 4 years

Courses	Year	No of eligible students	No. of students placed	% of students placed
UG	2013-14	377	129	34
	2014-15	605	274	45
	2015-16	540	276	51
	2016-17	540	258	48
PG	2013-14	167	52	31
	2014-15	149	85	57
	2015-16	162	49	30
	2016-17	140	22	16

A large number of recruiters visit AIT campus year on. The companies who visited the campus for the on going recruitment till date for the year 2016-17 are indicated in Table.5.11.

Table 5.11 Software and core companies visited during 2016-17

Software Company	Core Company
AT&T	AT&T
Thought focus	UTC Aerospace Systems(Internship)
Mind tree(Internship)	Hyundai Motor India Ltd
Hobby Master	TATA AIG
Mphasis(Internship)	Exdion Solutions Pvt.Ltd. (Internship)
Yodlee	L & T Infotech
Hashedin	Salarpuria Sattva
Infosys	Lee Spring
Cognizant	Airtel
Xoriant	Coral Telecom
IBM	Ashok leyland

Software Company	Core Company
Capgemini	Robert Bosch (Internship)
Mindtree	Amada
Tech Mahindra	Toyota Kirloskar
Mphasis	
NTT DATA	
Thought Focus (Internship)	
JK Techno soft Ltd	
L & T Infotech	
Sonata Software	
Zycus Infotech	

5.1.10 Does the Institution has a student grievance redressal cell? If yes list (if any) the grievance reported and redressed during the last four years?

The institute has a student grievance redressal cell to deal with cases of problems faced by the students. This has been formed in line with the guidelines set by UGC. This committee, under the chairmanship of the principal Acharya institute of technology, addresses the grievances/complaints of any kind raised by students. The committee meets once at the beginning of every semester with the multi pronged objective –to address current problem, to formulate impeccable plan of action based on previous occurrence, if any so that these problems are not repeated, and to proactively take steps to prevent such problem Faculty members are nominated as grievance redressal committee members in this institution as shown in Table 5.12.

Table 5.12 Grievance Redressal Committee

Address	Designation
Principal, AIT	Chairman
Prof & Head, EEE, Dean- Student affairs	Member
Prof & Head, Mech.Dean- Academic	Member
Prof & Head, ECE	Member
Prof & Head, MT	Member
Asst Prof. & Chief Warden, AIT	Member

Address	Designation
HOD of MCA& Chief Proctor, AIT	Convener
General Administrations, Acharya institutes	Member
Hostel Manager, Acharya Institutes	Member

In a unique way, students are encouraged to directly interact with their mentors to report their grievances. The major grievances by students related to daily chores, general maintenance and hygiene. Improper lights and fans in the class rooms, cleanliness in washroom, inadequate water supply at washrooms etc., Since last four years no grievance has been reported and all the grievances listed are attended to and better facilities are created for a conducive academic environment.

5.1.11. What are the institutional provisions for resolving issues pertaining to sexual harassment?

Acharya Institute of Technology recognizes the need to inculcate a culture of respect to women and create a climate, free of fear of sexual harassment. Acharya Institute of Technology ensures safe working and learning campus life for faculty and students free from gender discrimination and sexual harassment. It has cultivated an atmosphere where in men and women work together for the self-growth and prosperity along with the institution in a safe and healthy academic environment. To address any issues Women's Cell has been formed with the following members on board as shown in the table 5.13.

Table 5.13: Anti sexual harassment committee

Name	Designation	Department	Appointed as
Maheshappa H. D.	Principal / Dean Member	AIT	Chairperson
Uma Warriar	Chief counselor and Professor Jain University	OB and HR	NGO Consultant
Nagapushpa K. P.	Faculty	ECE	Member Secretary
Varalakshmi B. D.	Faculty	CSE	Presiding officer
Hanumanthe Gowda	Faculty	Dept of Humanities	Legal Advisor
Gopinath S. M.	HOD	BT	Member

Name	Designation	Department	Appointed as
Renuka Devi	Staff Representative	Faculty management	Member
Akshtha Joshi G	Student	ECE	Student Member
Pushpalatha	Student	MCA	Student Member

5.1.12. Is there an anti-ragging committee? How many instances, if any, have been reported during last four years and what action has been taken in these cases?

Yes

- 1) Anti-ragging committee as per UGC guide line has been formed. In anti-ragging squad, hostel committee are formed. Counsellors and senior students are members in anti-ragging squad. This ensures zero tolerance towards ragging.
- 2) As a proactive measure, a student led campaign of awareness against ragging is initiated at the beginning of every academic year.
- 3) No cases of ragging have been reported in the last four years, as the institute has strict vigilance by the faculty and senior students on ragging activity through its anti-ragging committee and anti-ragging squad. The anti-ragging squad members make surprise visits to hostels, canteen, library and other places in the campus as anti-ragging measure.
- 4) Information regarding central anti-ragging helpline, which is a toll free number, is given to the students.
- 5) Mobile numbers of anti-ragging committee and the squad are prominently displayed in the institution premises, hostels, canteen and library, so that the students can contact in case of emergency.
- 6) Display boards on the consequences of ragging are put up at prominent places in the campus and hostel.
- 7) Hostel blocks are earmarked with strict security arrangements and security personal are posted in all prominent places on campus.
- 8) Mentors appointed by the institute to guide the students to refrain from any ragging activities.
- 9) Affidavit from students and their parents to abstain from ragging activities are obtained.

Table 5.14 Core committee on anti-ragging

Members	Designation
Principal, AIT	Chairman
Executive secretary to the chairman	Member

Members	Designation
Dean of student affair	Member Secretary
All head of the departments	Member
Assistant professor one (on rotation)	Member
Resident medical officer	Member
General administrative officer	Member
Director physical education	Member
Student representatives (one from each departments)	Member
Sub Inspector, Soladevanahalli	Member

5.1.13 Enumerate the welfare schemes available to students by the institution

- 1) Various scholarships/free ships are awarded to students of AIT.
- 2) Adequate medical facility for all day students and staff at Acharya Health Care Center.
- 3) Healthcare center has 02 bedded acute care emergency ward with primary care services. It also has outpatient department. Ambulance to transfer the patient in emergency from departments and institution to Acharya clinic and to major hospitals if patient is in critical condition.
- 4) Post office facility on Acharya campus is available in Achitnagar Post office.
- 5) ATM facility of Axis bank and Punjab national bank are on the campus.
- 6) Canteen and food courts on campus
- 7) Students are given access to campus Wi-Fi facility.
- 8) Medical insurance facility is provided to the students.
- 9) Sports and indoor games facilities are provided.
- 10) Transport facility is available.
- 11) Special dietary provision is made for sports person.
- 12) Personality and soft skill development programs are offered
- 13) Support/financial assistance to the participants in conference, workshops, seminars, sports and cultural competitions.
- 14) Yoga classes are conducted.
- 15) Round the clock security is provided in the campus.

5.1.14 Does the institution have registered Alumni Association? If 'yes' what are its activities and major contributions for institutional, academic and infrastructure development?

Yes

The institution has an alumni association. Its activities have contributed for institutional, academic and infrastructure development. Acharya Institute of Technology/Alumni association is a registered body during 2007 with Government of Karnataka, (Society Number BLU-S76-2007-08, CD NUMBER-BLUS20). Registration fee for alumni life Membership is Rs.300/-. Alumni Meet are organized once in a year. Alumni meet brings together a wealth of talented and capable professionals ‘share their expertise and experience, and brainstorm on the prospective avenues. Total number of members registered for the Alumni Association is over 3500.

The student’s centric objectives of the alumni association are:

- 1) Training and Placement of juniors by devoting some of the weekends or other free days for knowledge transfer process.
- 2) Donate books to the department libraries and on initiation to build alumni block handling its office.
- 3) Students’ benefit schemes like scholarships for economically weaker students from alumni. Alumni website is linked to institution website acharya.ac.in
- 4) Email: ait.alumni@acharya.ac.in is created for communication
- 5) Facebook page: <https://www.facebook.com/groups/AcharyaAluminis/> which is used by more than 2000 alumni members.

US Chapter of Acharya Institute of Technology Alumni Association (R)

US alumni chapter has been registered during 2016 and first alumni meet of Acharya Institute of Technology in the United States of America was convened on 8th October 2016 at Chicago. This marked the genesis of the US chapter of the AIT Alumni Association. The first ever alumni meet was an upshot of the amalgamated efforts of alumni in the US and in India.

5.2 Students Progression

5.2.1 Providing the percentage of Students Progressing to higher education or employment (for the last 4 Batches) high light the trends observed Providing the percentage of Students Progressing to higher education or employment (for the last 4 Batches) highlight the trends observed.

The student progression for higher studies and placement is shown in Table 5.15

Table 5.15 Percentage of student progressing to higher education or employment

Student Progression	Percentage (%)			
	2012-13	2013-14	2014-15	2015-16
UG to PG	5	8	11	10
PG to M.Phil	NA	NA	NA	NA
PG to PhD	1	1	2	2
Employed/Placements				
• Campus selections	65	62	55	53
• Other than campus selection				

NA: Not applicable

5.2.2 Provide details of program-wise success rate of the college for the last 4 years. Compare the final year Results Program wise with University results of Branch.

Table 5.16 and 5.17 show the academic performance of the outgoing batches for the last four years.

Table 5.16 UG Programs Result Analysis

Branch	2012-13	2013-14	2014-15	2015-16
	Percentage Pass			
Aeronautical Engineering	NA	NA	85	93
Automobile Engineering	NA	NA	96	100
Biotechnology	86	78	87	77
Computer science Engineering	83	95	77	84
Civil Eng.	70	70	84	97
Construction Technology and Management	NA	NA	52	70
Electronics & Communication Engineering	65	84	65	78
Electrical & Electronics Engineering	80	51	58	76
Information science Engineering	88	77	89	76
Mechanical Engineering	88	82	92	78
Mechatronics Engineering	70	80	78	82

NA: Not applicable

Table 5.17 PG Programm Result Analysis

Name of the Programme	2012-13	2013-14	2014-15	2015-16
	Percentage Pass			
Biotechnology	100	100	100	100
Computer science Engineering	100	84	84	80
Electronics & Communication Engineering	89	100	94	73
Electrical & Electronics Engineering	100	100	100	100
Information science Engineering	NA	100	90	93
Mechanical Engineering	NA	100	100	100
Mechanical Engineering	100	100	100	100
MBA	95	97	97	99
MCA	83	91	86	88

NA: Not applicable

5.2.3 How does the Institution facilitate student Progression to higher level of education and /or towards employment?

Students who pass the UG programmes are motivated to continue their post-graduation and other higher studies. GATE coaching for interested students to pursue M.Tech.in premier institutes in India is provided. GRE-TOFEL, IELTS guidance and coaching are arranged for the students who wish to pursue their education in universities abroad. The career guidance, pre placement training is provided to all the students of institute and it is embedded in timetable. Placement department plays a vital role in facilitating to seek better employment opportunities. Many motivated talks, interactive sessions with industry experts, technocrats, scientists are arranged for the student's carrier growth.

5.2.4 Enumerate the special support provided to students who are at risk of failure and op out?

Special supports are given to all those students who are poor performers. Special remedial classes are arranged for them and many unit tests and mock tests are conducted for them. The candidates who have got supple in examination may attend the classes for the particular subjects in the next year.

- 1) Remedial classes for theory and practical
- 2) Personal care counseling by Mentor

A few efforts made to check the opt out rate and failures and facilitate the students to complete the course are additional coaching; personal guidance; remedial coaching; guidance lectures; Personal counseling; motivation; career counseling, parent teacher meeting;

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

Department of sports has been trying its best to inculcate good sports culture. Students are encouraged to take part in various sports, games, cultural and other extracurricular activities.

Following Sports facilities are available

Out Door

Football, cricket, basketball, volley ball, kabaddi, softball, archery, ball badminton, handball, tennis, kho-kho, athletics and horse riding.

Indoor

Table tennis, chess, carom, multi gym, power lifting and weight lifting.

Institute has produced many national level players like Khanaiah Lal, Hemavathi in weight lifting and tennis along with Vishnu K K in throw ball. The institution management consistently supports the sports activities and incentivizing the achievers in sports. The institution has seen very good achievers in the 'team games' of football, table tennis, cricket, basketball, volleyball, badminton, archery, yoga and swimming. In addition to team games, individuals also have excelled in inter collegiate and university level sports events like athletics, archery and yoga.

The list of sports activities along with the achievements for the past four years is listed below.

Organized: 2013-14

- 1) VTU single zone and inter-zone kho-kho tournament (men & women).
- 2) VTU Single zone weight lifting, power lifting and best physique competition (men and women) on 10th to 12th Oct 2013
- 3) VTU kho-kho (women) coaching camp to participate in inter university south zone tournament.
- 4) VTU kho-Kho (men) coaching camp to participate in inter university south zone tournament

Organized: 2014-15

- 1) VTU north zone softball (men) tournament in March 2014.
- 2) VTU Bengaluru north zone, inter-zone, single zone kabaddi (men & women) tournament and selection trails.
- 3) VTU kabaddi (women) coaching camp to participate in inter university south zone tournament held at Kannur university, Kannur.
- 4) VTU Bengaluru zone kho-Kho (women) tournament on 6th and 7th April 2015.

Organized: 2015-16

- 1) VTU Bengaluru zone kho-kho (women) tournament on 6th and 7th April 2015.
- 2) VTU archery (men and women) single zone tournament 26th October 2015.

Organized: 2015-16

- 1) VTU Bengaluru north zone football tournament on 3rd and 4th of April 2017.

Number of students receiving various medals

Students participated in various sports competition in the VTU zonal level, state level and national level won 22 gold, 30 silver and 16 bronze medals as shown in the Table 5.18.

Table 5.18 Number of students receiving various medals

Year / Prize	2013-14	2014-15	2015-16	2016-17	Total
Gold	8	8	4	2	22
Silver	6	5	14	5	30
Bronze	3	7	3	3	16

5.3.2 Furnish the details of major students achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc for previous four years

The students are encouraged to attend the co-curricular, extracurricular and cultural events in India and abroad. The students are permitted to travel various places for these events and they granted leave on duty during the absence from the institution. The students who participate in these competitions are sponsored. The number of students, who received awards shown in Table 5.19.

Table 5.19 Number of students receiving prizes in cultural and extracurricular activities

Year	University level			State level				National level				International level			
	1 st	2 nd	3 rd	1 st	2 nd	3 rd	P	1 st	2 nd	3 rd	P	1 st	2 nd	3 rd	P
2013-14	17	15	9	1		1	3	2	3	1	8	4			9
2014-15	13	1	2	1				4			5				10
2015-16	13	2	2	1				1				1			15
2016-17						2									
Total	43	18	13	3		2	-	8	3	1	-	5			

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- 1) The institution collects feedback from the passing out students of all the departments during exit interview. Also the students are free to give their feedback anytime during their stay in institute. The data collected is processed. The data is used to implement any corrective or preventive action to rectify the deficiencies.
- 2) Feedback from alumni is also collected from time to time. This data is used to upgrade the facilities and process.
- 3) The training and placement cell collects feedback from senior executives, who visit the campus for campus interviews, on the performance of the students. This feedback is just passed on to the departments to make the necessary changes in program
- 4) Also, feedback from the students is obtained to provide valuable inputs for improving the support services like central library, hostels, sports activities, health centre and transportation.

The department clubs/associations also collect feedback from students after every program and the suggestions are considered for improving the facilities/services, a few of such feedback implemented are mentioned below.

- 1) Library hours (extension of reading room)
- 2) Remote access of e-resources.
- 3) Establish of EDP cell.
- 4) Financial support to participate in seminars (conferences) events.
- 5) Extra coaching for competitive examination.
- 6) Mock interviews and placements and guidance.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

The institution helps students in transforming their technical and non-technical ideas in the form of article. The technical ideas are converted into papers which are published in journals and conference proceedings. The institution has a e-Samachar institution news letter to disseminate the achievements and the activities for all its members, website link - http://www.acharya.ac.in/samachar_index.php

Notice boards across the departments are provided for the students to display their catalogues and posters. The institution also provides the facility to advertise the student events in the form of banners and posters inside the campus.

Institution also circulates the reports of events and the achievements of students & faculty through the E-mail titled “News Acharya” and also through its half yearly newsletter “Semacharya”. The institution also transforms knowledge through departmental forum Technical student symposia are conducted by all departments annually.

The Table 5.20 shows the various departmental magazines brought out by the students in the previous four academic years.

Table 5.20 Departmental magazines

Department	Department Magazine Name published in			
	2015-16	2014-15	2013-14	2012-13
Bio Technology Engineering		Illuminati Issue 8	Illuminati Issue 7	Illuminati Issue 6
Computer Science & Engineering	Magnum Opus Vol 6	Magnum Opus Vol 5	Magnum Opus Vol 4	Magnum Opus Vol 3
Electronics & Communication Engineering			E-Spectrum 4th Edition	E-Spectrum 3rd Edition
Information Science & Engineering	Prasthitha 2015-16	Prasthitha 2014-15	Prasthitha 2013-14	Prasthitha 2012-13
Mechanical Engineering		Momentum Issue 2	Momentum Issue 1	
Mechatronics Engineering	Mechatron Times Vol 4	Mechatron Times Vol 3	Mechatron Times Vol 2	Mechatron Times Vol 1

News Acharya

News Acharya encourages all the students and staff to publish the events, activities, and achievements in e-format circulated to all the members through Acharya mail ids.

5.3.5 Does the college have a student council or any similar body? Give details on its selection constitution, activities and funding.

There is a student council 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.

5.3.6 Details of various academic and administrative bodies that have student representatives on them.

Student representatives from each department are inculcated as members in various academic and administrative bodies both at department and institutional level. Various academic and administrative bodies in the institution are listed in the Table 5.21.

Table 5.21: Various academic and administrative bodies

Committee	Objective
Ideating Cell	Implementation of innovative ideas and projects initiated by the students.
Placement Cell	Student-Industry interaction to improve employability.
Library Advisory Committee	Proper functioning of library and to introduce innovative services.
Alumni Association	To maintain a healthy relationship between the institute and graduated students.
Women's Cell	To facilitate a gender-sensitive and congenial working environment at the institute.
ISTE Student Chapter	Organising workshops, conferences, seminars, and publications.
Class Committee	To create learning situations in which students develop proficiencies based on effective educational and communication skills.

Committee	Objective
Department Association/ Forum	Organising workshops, conferences, seminars, project exhibitions, industrial trainings etc.
NSS	Social welfare.
Anti-Ragging Committee	Welfare of wards and students.
Nature Watch club	Environmental conservation and awareness.
I-Care	Social welfare; and social responsibilities towards society.
Cultural Committee/students welfare committee	Planning and implementing of activities that create an environment supportive to cultural awareness, cultural identity, and self-esteem among the students.
Acharya Newsletter Committee	Dissemination of information.
Idea Incubation Entrepreneur Cell (IIEC)	Identify, nurture and leverage research activities, bringing about innovation for the benefit of the community at large.
BOX-Acharya Institutes Technology Business Incubator (BOX-AITBI)	Provide an end-to-end cutting edge ecosystem that supports new and emerging technology ventures and enhance their likelihood of success.
Acharya Institutes Intellectual Cell	For ideating the ideas

5.3.7 How does the institution network and collaborate with the alumni and former faculty of the institution. Any other relevant information regarding student support and progression which the college would like to include

Alumni association which is known as (AITAA) has been formed. With faculty and alumni coordinators and work for the expansion of alumni network. AITAA communicates with the alumni through social networking i.e., Face book, Whats App, e-mail and annual alumni meets.

Alumni's are assisting the students

- 1) To carry out their academic projects
- 2) To get placement by conducting pre-placement talks

- 3) To have knowledge about the current trends by conducting the workshops
- 4) For start-ups in different fields.
- 5) To have field training in their companies

Former faculty members

- 1) To give special lectures on recent developments
- 2) Invited as judges for the annual project exhibition
- 3) Invited as a subject experts to train the faculties in their respective subjects

Table 5.22 shows the list of a few distinguished alumni.

Table 5.22: List of distinguished alumni

Name	Course	Batch	Organization
SnehalataYadav	BE -ISE	2013	Infosys
Ajay Kumar T	BE - CSE	2010	IBM
Nethravathi N	BE - ISE	2010	Hewlett Packard
Santhosh R	BE - ME	2008	P3 Voith Aerospace (Airbus)
Abhilash V Sadashiva	BE –ECE	2008	Volvo India Pvt Ltd
Manjushree M P	BE –CSE	2014	AMAZON
KarthikElumalai	BE - MT	2014	Tata Consultancy Services
Amulya G	BE - BT	2014	Radiant research services Pvt. Ltd
Anil Kumar V C	BE - ISE	2007	Hewlett Packard
Omkar Kokane	BE - ECE	2015	Capgemini

Criterion VI: Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision

“Acharya Institute of Technology, committed to the cause of sustainable value-based education in all disciplines, envisions itself as a global fountainhead of innovative human enterprise, with inspirational initiatives for academic excellence.”

Mission

“Acharya Institute of Technology strives to provide excellent academic ambience to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research, ethical, and sustainable service to societal needs.”

The Institute nurtures the intellectual, professional, and personal development of its faculty and students. The institute strives to prepare the students into the engineering profession through this graduate and post graduate program. Further update/enhance the skills through skill development programs, to be a responsible member of the society. The distinguished feature of AIT in teaching learning process is through a constant interaction and mentoring of the students inculcating discipline and lifelong learning.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

Acharya Institute of technology has been imparting quality technical education. It is dedicated to establish, nurture and develop world class institutions of higher education especially in the Engineering and Management fields. The JMJ education society aims at developing centre of excellence through innovative product design and development. The AIT proposes to involve in community service such as awareness programmes in education, health, safety, environmental management, towards enabling the rural community to reap the benefits of development. The governing council consists of eminent academicians, industrialists and administrators.

The management of Acharya Institute of Technology is highly committed and dedicated to the service of catering to the contemporary requirements of higher education. The teaching learning process is enhanced by providing the most efficient infrastructural facilities like well-equipped and spacious laboratories, audio visual aided classrooms, language laboratories, computers with internet facility and ICT integration in teaching and learning process. The participation of the staff in the process of decision-making in institutional functioning is also encouraged by the management. Sufficient independence is given to the principal from the management to function in order to fulfill the vision and mission of the institute. The principal is the academic and administrative head of the institution. Principal is supported by deans and HODs to develop strategies for academic growth R and D programmes within the limits of university/government/statutory regulations. Principal implements and monitors the processes approved by the governing council and report back the progress. Principal plays an important role in planning and implementation of TLP, R and D, consultancy and other activities in different spheres of institutional functioning vis-à-vis all its stake holders. With the support of the institute administration and the faculty the principal ensures the involvement of all stakeholders in the effective and efficient transaction of the teaching-learning processes, R and D, consultancy, co-curricular and extracurricular activities.

The institute has constituted different committees including faculty which play an important role in the planning and implementation of activities in different spheres of institutional functioning. Faculty conducting different international/national level conferences and participating in international/national level symposia/workshops/seminars help to keep pace with the latest development in science, technology, engineering and management and impart organizational skills to students through augmentation of the syllabus and also using varied methods of teaching to keep students to learn and apply better. The faculty participates actively in policy making and application through two representatives in the institutes governing council. Various committees such as advisory committee, IQAC, examination committee, DAC, anti-ragging, magazine committee have faculty representatives. These committees discuss various matters within their purview (like expansion of programmes, infrastructural facilities, R and D Facilities) and present their reports and recommendations to the principal and management.

The management of AIT, principal and faculty of the institute are committed to plan, implement, document and continually improve effectiveness through a Quality Management System. Acharya Institute of Technology is committed to ensuring conformity and compliance to international standards.

6.1.3 What is the involvement of the leadership in ensuring?

1) The policy statements and action plans for fulfillment of the stated mission

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 associated 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 cell gives the policy guidelines and monitors the academic processes. The chief mentor is responsible for the student mentoring in academic and non-academic activity through the mentors. The chief warden and the wardens supervise the hostels for both boys and girls. The principal reviews the processes through the meetings regularly. The principal coordinates with VTU, GoK, AICTE and other authorities and statutory bodies.

2) Formulation of action plans for all operations and incorporation of the same in to the institutional strategic plan

The institutional strategic plans for all operations are prepared in the Governing Council meeting. The minutes of the meeting are discussed under the supervision and guidance of the principal, deans and heads of the departments. The well-structured organizational chart with defined roles and responsibilities ensure the smooth and effective system implementation to attain the mission and vision of the institute. Different committees are at the institutional level and department level such DAC, IQAC and these committees initiate action as per the defined roles in formulating and achieving strategic plans.

3) Interaction with stake holders

The management and principal together ensure that all stakeholders are involved in the growth and structured expansion of the organization. Students, being the main stakeholders are treated as the centre of all activities and many curricular and co-curricular activities are conducted for their benefit. The institute conducts the parents-teachers meet department wise to interact with the parents/Guardians of the students. The parents/guardians are informed about their ward's performance, attendance and areas to improve upon. Parent's informal visit and interaction is also conducted at various stages of student performance. The institute has developed a system called

Continuous Attendance Reporter (CARE) which will send SMS to the parents registered mobile number which contains the details of internal assessment marks and attendance status of the students. Alumni meeting provides appropriate interface between alma-mater in input for curricular development, student projects, students placements R and D and other areas of interaction and coordination. It is conducted once in a year at institute level. Alumni are also regularly invited to deliver special lecture and to interact with students. Similarly the Scientists and technocrats from institutions, industries, R and D organizations are invited for interactions with the students.

4) Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.

The plan and policy of the institute are customized in such a way that the students meet out the market demand, industrial needs and stakeholders' requirement. The institute is aware of the needs of the society through its interactions with university, AICTE and other academic authorities. Infrastructures are created by the management in order to get the research projects, consultancy projects from private and government funding agencies in thrust areas in order to fulfill the societal needs. Full support for all such new initiatives is extended by the authorities. The management fully supports any new plans for the benefit of its stakeholders.

5) Reinforcing the culture of excellence

Teaching Learning Process is the primary area of excellence in which Research and Development is the one of main focus of the institution. Management facilitates the faculty members to pursue their Ph. D programmes by providing two day research leave in a month to meet the guide, to discuss the research progress. The organization also provides an opportunity for the student to work with foreign universities like Old Dominion University, where at least 5 students from various branches will get an opportunity to visit ODU, USA and work there for 2 months. MoUs with different industries like SASKEN, Infosys Campus Connect etc., will give an exposure to the students towards changing needs of the industries.

6) Champion organizational change

The institute is always ready to appreciate and accept the changes in the procedure and process in the academics as per the suggestions given by stakeholders and alumni for the better functioning of the institution. The institute is always open for change in policy and also keeps abreast with institutions in their quest for excellence.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The policies and plans of the institute are monitored and evaluated by the governing body, IQAC, the Principal, and the Dean's of the institute. The Head of the Departments give a constructive feedback regarding the same. Monthly staff meetings are held to take stock of the activities undertaken by the various committees. The institution maintains effective internal coordination and monitoring mechanism with various departments and committees formed by the institute for curricular, co-curricular and extracurricular activities. Each department has a Department Academic Committee which monitors the department level activities. The institution improves the quality of its academic programmes in the following ways:

- 1) Monthly review of academic processes and department progress by HODs.
- 2) Continuous assessment of teaching learning process through IQAC audit committee.
- 3) Student's projects are scrutinized by industrial experts through technical project exhibition.
- 4) Online access to data relating to the attendance and IA marks of students and communication to the parents.
- 5) Incorporating the inputs received from industry experts after placement exercise.
- 6) Obtaining periodical feedback from parents, students, alumni and external experts.
- 7) Systematically maintaining staff and student database through admission software.
- 8) Communication facilities such as internet and intranet.

6.1.4 Give details of the academic leadership provided to the faculty by the top management?

The academic leadership of AIT is shown in Fig. 6.1.

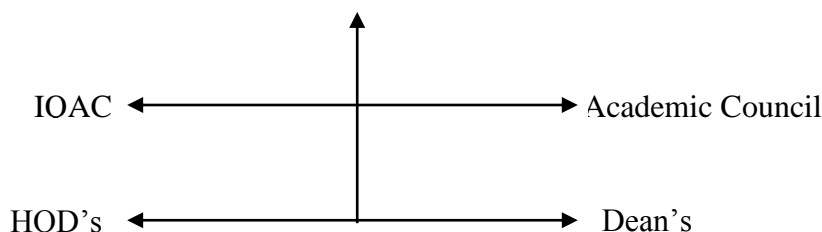


Fig 6.1 Academic leadership of Acharya Institute of Technology

6.1.6 How does the college groom leadership at various levels?

- 1) The institute is having a good leadership chain of the chairman, campus director and principal assisted by heads of the departments.
- 2) The Head of the Departments are in-charge of the academic activities, budgeting, infrastructure, requirements and administration, faculty requirements and their knowledge domain and student issues in their respective departments
- 3) The Head of the Departments is assisted in various activities by committees, academic advisory committee, and laboratory in-charge and committees formed for specific activities.
- 4) Decentralization has helped in making the leadership realize the various intricacies of leadership and management.
- 5) Regular leadership training is conducted in which various systems, processes, strategies and behavior issues are discussed.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- 1) The department committees under the chairmanship of the Head of the Departments plan the academic, curricular and extracurricular activities. The concerned faculty coordinator implements the plans.
- 2) The department makes the proposal for the conduct of seminars, workshops and symposiums to the principal for administrative approval. The activities are conducted and the report on the activities is submitted.
- 3) The Head of the Departments review the performance of the students in the internal assessment test. Below average performers are counseled by the mentors / HODs and the chronic cases are discussed with the parents / guardians.
- 4) The academic counsel reviews the performance of the students and suggests remedial measure if required.
- 5) The advertisement for the faculty requirements is advertised on the website / newspapers. The HR department also shortlists the candidates from the job portals. The departments are recruiting the faculty by short listing the candidates through a demo / technical interview. The shortlisted candidates are sent for HR round for recruitment.

6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.

Yes

The management gives full support for faculty involvement, industry expert's involvement, parent's involvement, student's involvement etc., in planning as well as execution and follow-up. The policy of the institution is to make faculty a part of day to day management process. Faculty are nominated on the governing body, cultural and sports committee, anti-ragging committee, halls of residence committee, canteen committee, women cell committee, Placement, entrepreneurship and student activities, industry initiatives, library council, IQAC, grievance redressal committee, academic council.

6.2 Strategy Development and Deployment**6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

Yes

Acharya Institute of Technology follows a derived and aligned vision and mission of the institution. All the strategies are aligned and deployed and monitored by IQAC cell.

Every semester each faculty has to mandatorily maintain faculty folders which include course, personal, performance, proctor folders, attendance registers and internal assessment records are reviewed by the IQAC cell of the institute.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes

Institute has a perspective plan of development. Development plans are:

- 1) To provide high quality technical education aligned with international standards.
- 2) To inculcate the culture of R and D by promoting production of intellectual property in terms of research output, publications, applied research and transfer of knowledge.
- 3) To provide short internship in collaboration with international universities.
- 4) To introduce industry-institute collaboration to develop industry relevant projects.
- 5) In order to meet the global competency requirements, students are trained with foreign language courses like german, french etc.
- 6) To develop and strengthen a pool of industry ready students and ensure their place in national and multi-national companies by special purpose training programmes.
- 7) To become an autonomous institute delivering a competitive curriculum.
- 8) To get accreditation from various bodies.

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organizational structure and decision process is shown in Fig 6.2, which is a bottom up – top down approach with deliberations, discussions and decision making at various levels.

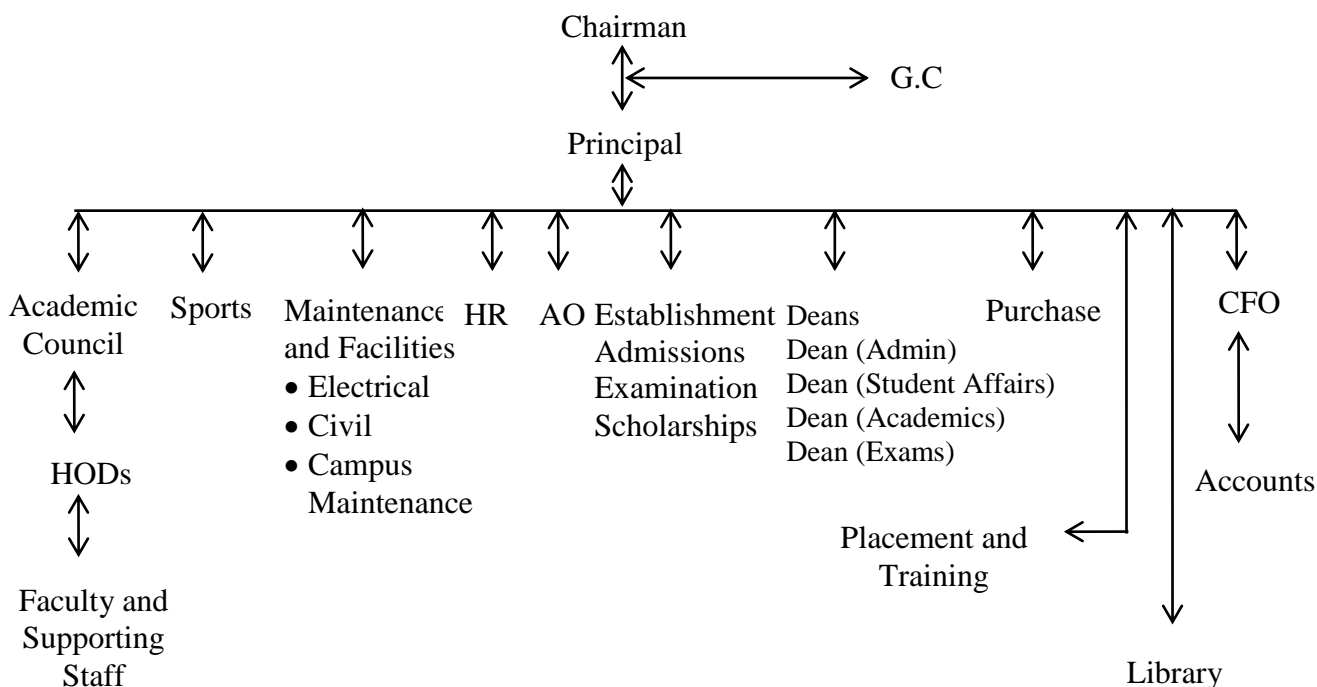


Fig 6.2 Internal organisational structure of Acharya Institute of Technology

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

The quality improvement strategies are: 1) Teaching and Learning 2) Research and Development 3) Community engagement 4) Human resource management and 5) Industry interaction

Teaching and Learning

- 1) Implementation of Bloom's Taxonomy based teaching and learning methodology.
- 2) Recruitment of qualified and experienced staff as per AICTE norms.
- 3) Sponsorship to faculty for higher studies and faculty development programmes.
- 4) Use of ICT facilities.
- 5) Continuous evaluation system for students through internal assessment tests, assignments, seminars presentation and project works and summative assessment through end semester examinations conducted by the university.

- 6) Internships and projects in collaborating with industries and institutions in India and abroad.
- 7) Emphasis on imparting skills through laboratory experiments and industrial visits /trainings / tours and various skill development programmes.

Research and Development

- 1) To strengthen the culture of research and development the institution encourages the faculty members to pursue fresher studies.
- 2) Adequate infrastructure facilities like Wi-fi connection, digital library, equipment and laboratories are provided to promote research and development.
- 3) Institute has constituted an “Ideating Cell” for promoting research and development of new and innovative ideas which will further lead to application of patents, publications, applied research and transfer of knowledge.
- 4) To depute faculty members for fulltime research program.
- 5) To encourage students to undertake industry sponsored projects.
- 6) To encourage faculty and students to present technical papers and contribute to research activities of national and international repute with financial support.
- 7) To encourage faculty members to submit project proposals for research funding.
- 8) MoUs with industries for undertaking R and D collaboratively and consultancy.

Community engagement

- 1) Institute conducts community programs like blood donation camps, Awareness on epidemic diseases, awareness on crackers bursting, Computer literacy program, Acharya helping hands, woman health and hygiene and tree plantation.
- 2) A rain water harvesting unit was constructed at Soladevanahalli police station, Soladevanahalli.
- 3) The students and faculty undertake community awareness programmes and NSS activities.

Human resource management

- 1) There is formal process in place for the notification of vacant teaching and non-teaching posts and the recruitment is completed as per the guidelines of affiliating university and AICTE.
- 2) Adequate number of qualified teaching and supporting staff are appointed through the procedure of open advertisement and interview by Expert committee.
- 3) Recruitment round the year of faculty of eminence.
- 4) Faculty development programs and induction programs are conducted to enhance the teaching-learning process and adjust with organizational culture of the institute.

Industry interaction

- 1) Institute encourages MoU with various industries professional bodies and organizations to provide knowledge of latest trends in technology to students and faculty.
- 2) Institute encourage students to take up industry sponsored projects and internship programs.
- 3) Involvement of industry experts in academic activities as advisory members.
- 4) To provide research consultancy services to the industries.
- 5) Established technology business incubation center to promote innovations.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The head of the institution ensures that adequate information is available for the top management and the stakeholders to review the academic activities through:

- 1) The review and analysis of feedback received from the students about the academic activities of the institution.
- 2) Reporting of PBAS appraisals consisting of self appraisal, TLP audit appraisals by head of the department, principal and students.
- 3) The regular meetings of students with the principal are held for the necessary improvements in various aspects.
- 4) Parents-teacher meeting is conducted every year to interact and receive the feedback. The feedback is assessed and suggestions are considered.
- 5) Consider the suggestions received by the students.
- 6) Interaction with the potential employers when they visit for campus interviews.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- 1) Management has given academic freedom to the principal and the heads of the departments in teaching learning process.
- 2) Institute has constituted an “ideating cell” for promoting research and development of new and innovative ideas which will further lead to application of patents, publications, and applied research realization of products, transfer of knowledge and filing of patents.
- 3) Management has created facilities for research and development.
- 4) Management encourages and supports the staff in pursuing higher education.
- 5) Adequate infrastructure facilities like Wi-fi connection, digital library, equipment and laboratories are provided to promote research and development.

- 6) Institute has a provision to depute faculty members for fulltime research program.
- 7) To encourage faculty members to submit research proposals to various funding agencies.
- 8) The recruited faculty is deputed to undergo faculty development program to enhance the teaching learning process.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Governing council meeting will be held once a year. Last meeting was held on 6/7/2016. The action taken report on the previous resolutions are reviewed and the Table 6.1 shows resolutions are made.

Table 6.1 Resolution and action taken report of GC meeting held on 6/7/2016

Resolution	Action taken
Approval of the budget for 20 15-16	Sanctioned budget was allocated to respective departments.
To define augmented syllabus in consultation with inputs from industries for the improvement engineering skills of students	Through the advisory board members, inputs and suggestions are taken into consideration.
To get eligible programmers accredited from National Board of Accreditation.	Five eligible programmes have undergone the process of NBA accreditation.
To start the process to advertise and appoint the eligible candidates through selection process	Eligible candidates are appointed through selection process
Enhance the placements for students	The following inputs were given to enhance the placement <ol style="list-style-type: none"> 1. AMCAT tests 2. SPT classes throughout the semester 3. English proficiency classes 4. Personality development 5. Infosys campus connect
To encourage research and development	<ol style="list-style-type: none"> 1. Faculty members deputed for fulltime research program. 2. Financial assistance is provided for research publications in referred journals.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

Yes

The affiliating university has a provision for according autonomy for an affiliated institution. Efforts are made by the institution in obtaining autonomy. Ten departments have permanent affiliation and the application for autonomy is under consideration.

6.2.9 How does the Institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

Institution ensures that grievances/complaints are promptly attended to and resolved effectively through following mechanisms for promoting better stakeholder relationship.

- 1) Grievance redressal committee is constituted to address the grievance complaint of any kind submitted by the students and staff of AIT. This committee meets once in the beginning of every semester to take stock of the situation and plan for the future if any unaddressed issues to be addressed based on the previous instances and sets protocol and actions accordingly.
- 2) Constitution of anti-ragging committee to prevent ragging. This is a committee constituted to prevent any kind of ragging activity in and around the campus including the institute hostels. It is functioning well with more than 30 squad members (including faculty and senior students) working 24x7 during the beginning of every academic year to make sure that the incumbent student is safe and promote highly safe learning environment in Acharya institute.
- 3) Constitution of “Women’s Cell” to inculcate a culture of respect for the female gender and the creation of a climate, free of fear of sexual harassment and an urgent need to address the task of the prevention and support to those who need assistance.

Zero Tolerance Policy

Acharya campus is a multi-lingual, multi-religious, multi-national, multi-ethnic institution promising equal opportunities irrespective of caste, creed, religion, language, gender, ethnicity or citizenship. It strongly intends to maintain such ‘equality with equal opportunity’ under its zero tolerance policy.

Acharya Institute of Technology brings to the notice of all employees direct or indirect, all students past and present and all officials associated with the organization in any way that the following issues are on a Zero Tolerance Level. Acharya Institute of Technology reserves the right to remove from service the employees or rusticate them from rolls of institutions the students and also may also hand them over to police, if they are found to be flouting any discipline in any form mentioned below:

Gender Issues

- 1) Misbehavior and unsavory remarks against women
- 2) Public display of any passion or otherwise towards women
- 3) Public proximity to either gender – please maintain personal space
- 4) Filming videos on campus without express written permission of a) Proctor (for students) under intimation to head of institution b) Head of institution (for employees)
- 5) Any sharing or forwarding of private videos, pictures, write-up about employees or students or about Acharya Institute's on face book, twitter, you tube etc. is henceforth prohibited and shall come under the zero-tolerance policy if it goes beyond norms of decency and privacy of individuals
- 6) Any objectionable materials, if so published as above, shall invite punitive measures.
- 7) Interaction between student and faculty is encouraged, but only within limits of decency.

Religious-Ethnic Issues

- 1) Display of any bias, favoritism or unusual exemptions based on gender, caste, creed, religion or language will be viewed seriously as irresponsible behavior and shall attract appropriate actions even to the extent of removal from service or rustication from rolls.
- 2) Participation in institutional activities shall be on an equal opportunity basis and no distinction shall be made other than by competence in required area or merit of performance.

General Issues

- 1) Any anonymous writings about faculty / employees / student (s) shall be taken a serious note of.
- 2) Possession or carrying any firearms or other weapons likely to cause serious injuries on use, with or without license in acharya campus or outside by employees and students shall be taken as a serious offence under the zero tolerance policy.
- 3) Possession, carrying or use of alcohol, drugs, tobacco is strictly forbidden on campus and shall attract punitive measures
- 4) Violence in any form / abuse in any language shall attract punitive measures.

Detection and Follow-Up

Any such incident (s) or actions as soon as they are detected shall be promptly brought to the notice of the mentor and/or HoD and/or principal and/or head of section who shall report immediately to empowered committee on zero tolerance policy for further action.

Empowered Committee on Zero Tolerance Policy

The committee is empowered to take immediate action by scrutinizing the case (s) and enforce punitive and/or remedial measures within 48 hours of occurrence of the event, with the concurrence of Chairman. The committee composition is

- | | | |
|---|---|---------------------------------|
| 1) Shalini Reddy, Chairperson | – | Executive Director |
| 2) CBM Bhooshan, Member | – | Executive Secretary to chairman |
| 3) H.D. Maheshappa, Principal | – | Member |
| 4) Ramakrishna Gowda, General administrator and
Sports in charge | – | Member |
| 5) Harish L, Head HR | – | Member secretary |

The grievances are also considered through the feedback given by the parents during the parents-teachers meeting conducted every semester. These grievances are addressed and actions taken accordingly. All the grievances related to academics are discussed with the concerned heads of the departments and resolved at the earliest.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No, such incidences are reported

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes.

- 1) The students feedback concerned to academic activities is collected online once in a semester.
- 2) In case of not satisfactory feedback the faculty is counseled by the head of the department / principal in the areas he / she lacks.
- 3) Institute conducts exit interview to obtain feedback on institutional performance during final semester.
- 4) Alumni feedback is collected every year during alumni meet and suggestions from alumni's are taken for consideration for quality improvement of the institute.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development to its teaching and nonteaching staff?

To enhance the professional development of teaching and nonteaching staff, the institution has initiated the following efforts:

- 1) Faculty members are encouraged and allowed to improve their qualifications and knowledge up graduations by permitting them to join for courses, Ph. Ds. Official leave is also granted.
- 2) Encourage the faculty to participate in workshops and present papers in conferences and seminars.
- 3) Faculty development programs and skills enhancement programs are organized regularly on campus. Also faculty is deputed to participate in refresher courses, FDPs summer/winter training programs etc.
- 4) Faculty internships in industries has helped to a great extent to gain practical experience to face the challenges and changing needs of learning and industries.
- 5) The faculty are also encouraged to deliver to various groups and engage themselves in extension programs
- 6) In house skill development programs are organized at regular intervals to upgrade the skills of non-teaching staff.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- 1) For administrative skill development of staff, the Institute organizes corporate training programs
- 2) For personality development, teaching skill development and social and technical up gradation, the Institute organizes training program.
- 3) The institute deutes the faculty for training programmes organized by other organizations.
- 4) The institute invites resources persons such as industrialists, researchers and academicians of reports for interactions with the staff.
- 5) Conducting orientation program about the policies and procedures prevailing in the institution
- 6) The institute encourages the senior faculty to motivate the junior faculty in following ways-

- a) Giving essential inputs, providing personal training on lecture/ laboratory work delivery/seminar-project guiding, counseling on career advancement.
- b) Involving them in discussions syllabus.
- c) Creating an open atmosphere for personal growth and to clarify the doubts, concepts and difficulties.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

Performance Appraisal of Faculty and Support Staff

Faculty and staff appraisal systems in AIT 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 written and subjective parts have been modified to facilitate quantifying quality.

The Performance Based Appraisal System is modelled on recommendations made by MHRD, Pay Commission Report and the guidelines issued by UGC. These have been enunciated clearly with appraisals based on performance.

Annual staff and faculty performance appraisal systems have been introduced. The system consists of: 1) Self appraisal 2) TLP 3) Head of Department / Section 4) Appraisal by the Principal 5) Appraisal by students. Weightages given to the faculty appraisals are:

Self appraisal	:	40%
IQAC assessment of TLP	:	20%
Evaluation by HOD	:	10%
Evaluation by Principal	:	10%
Appraisal by Students	:	20%

Source Data for Appraisal

while student's appraisals are on-line, are supervised by a group of mentor to avoid bias or fear, the peer team-hod, principal-management and even the annual confidential report shall use the data for the year of appraisal available with each Institution or department in the faculty. IQAC documents are submitted by the faculty are 1) Personal Folder, 2) Mentor Folder 3) Performance Folder and 4) Course file. These documents are with the respective heads of departments under quality implementation system

System of Awards and Accountability

The appraisal system is the basis for the increments promotions and appreciation of service. The accountability is appraised yearly based upon participation in academic curricular and extracurricular activities. The performance below the targets is counseled by the head of the department and / or the principal.

6.3.4 What is the outcome of their view of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The student feedback is communicated to faculty by the head of the department. In the PBAS format, after the self-appraisal, the head of the department, the principal, audit of the IQAC for TLP practices and student feedback are assessed cumulatively on a scale of 100. Provision is also made for any grievance in the PBAS process and ratification is done by an independent committee of senior faculty. This score is communicated to the faculty and filled in the personal files. Any faculty getting less than 65/100 is counseled and advised with hand folding for subsequent improvement.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**Welfare schemes for teaching and non-teaching employees**

- 1) Provision of canteen in the Campus
- 2) Health center in the campus and periodical medical check-up facilities for staff
- 3) In the event of death of an employee while in service, an ex-gratia amount, is granted to the dependents of the deceased employees, towards funeral expenses.
- 4) Educational loan for higher studies for deserving faculty and staff.
- 5) Grant of Rs. 5000/- for marriage for the administrative staff, maintenance, housekeeping staff and drivers of acharya transport vehicle / freight.
- 6) Interest free advances during emergency.
- 7) Free admission for first child of employees and 50% concession on fees for the second child
- 8) In the event of death of an employee, while in service his/her dependent will be considered for employment on compassionate grounds, depending upon the merit of the case, limited to cadre junior assistant, subject to eligibility of the individual concerned and availability of vacant posts.

- 9) All the employees are covered under employees provident fund scheme as per the act. The employees and management contribute 12% of the pay of such employees towards the fund.
- 10) Group Insurance: with collaboration of AIT and Tata AIG general insurance company Ltd., with coordination from Axis bank, students, first parent of students and staff members come under the purview of group Insurance provided by Tata AIG general insurance company ltd.
- 11) Employ State Insurance facility is extended to all non-teaching and technical staff.
- 12) Financial Benefits(Sponsor) up to Rs. 10,000/- is provided for every faculty every year towards the publication of research papers, articles, attending conference, workshops and faculty development program.
- 13) Leave facilities: Leave facilities like vacation leave, special leave, earned leave, maternity leave, and medical leave in addition to casual leave and restricted holidays are availed by the employees.
 - a) **Vacation leave** for those faculty who have completed one year of service and are vacation staff can avail 30 days of vacation per year generally split into 15 days each after every semester.
 - b) **Marriage leave** can be available for a duration of 10days.
 - c) **Earned leave** for non-vacation staff is permissible for 18 days per year.
 - d) **Medical leave** for 10 days can be availed by the staff that has completed their probationary period, which is based on submission of discharge summary, hospital medical certificate presentations.
 - e) **Permission:** Faculty are allowed to avail one hour permission only once in a month
 - f) **Maternity leave** for 3 months can be availed by the lady staff with full pay only once during the entire service period and who have completed at least 2 years of service in the institution
 - g) **Paternity leave** of 5 days is provided with full pay only once during the entire service period
 - i) **Special leave** for pursuing Ph. D programmes.
 - j) **Special leave** for higher education other than Ph. D: the faculty/staff who have completed the probationary period and have taken up higher studies, are permitted special leave for appearing for their examination to the extent of dates of examination
 - k) **Sabbatical leave** for period up to 15 days in a year is permitted for the sponsored research and projects.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- 1) The eminent faculty are invited to join the institution.
- 2) The pay and perks are beyond the pay scales and are negligible.
- 3) A few of the faculty are given flexi time for work.
- 4) A special encouragement is given for carrying out research work.

6.4 Financial Management and Resource Mobilization

The issues considered under this key aspect are: 1) Budgeting, 2) Optimum utilization of funds and 3) Mobilization of resources

The fees are collected as per government norms and regulatory authorities. The fees collected under specific heads are utilized for the purpose for which they are collected. The JMJ education trust provides the infrastructure facilities. The accounts are maintained on the ERP system, transparency is altered in receipts and payments. The annual auditing is carried out by the auditors appointed for the same.

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- 1) The institution has a practice of budgeting at the beginning of financial year as per the requirements of each department. The requirements received from departments would be consolidated as the budget of the institution for the academic year that would be approved by board of governors.
- 2) Budgetary provisions are utilized for:
 - a) Infrastructure development and maintenance
 - b) Payment of salaries, wages and statutory deduction
 - c) Payment of contingency bills such as taxes electricity bill, water bills and campus maintenance.
 - d) Procurement of equipment's and their maintenance
 - e) Procurements of books, journals and e-resources.
 - f) Payments towards special purpose training, value addition carries conducted for the students.
 - g) Sports and gymkhana expenses.
 - h) Support for R and D and faculty development programmes, expenses towards conferences, workshops.

- 3) Social activities and social welfare programs outside the campus.
- 4) The institution has a Centralized Purchase Department (CPD) which processes equipment's, books and consumables.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The finance and accounts of the institute are audited regularly for every financial year. The institute has a mechanism for internal and external audit. The internal audit is up to date. External audit is done by statutory auditors. The last statutory audit was completed for the financial year 2015-16. The auditor report does not have a any major objections requiring compliance. Fig 6.3 shows the institutional mechanism for internal and external audit

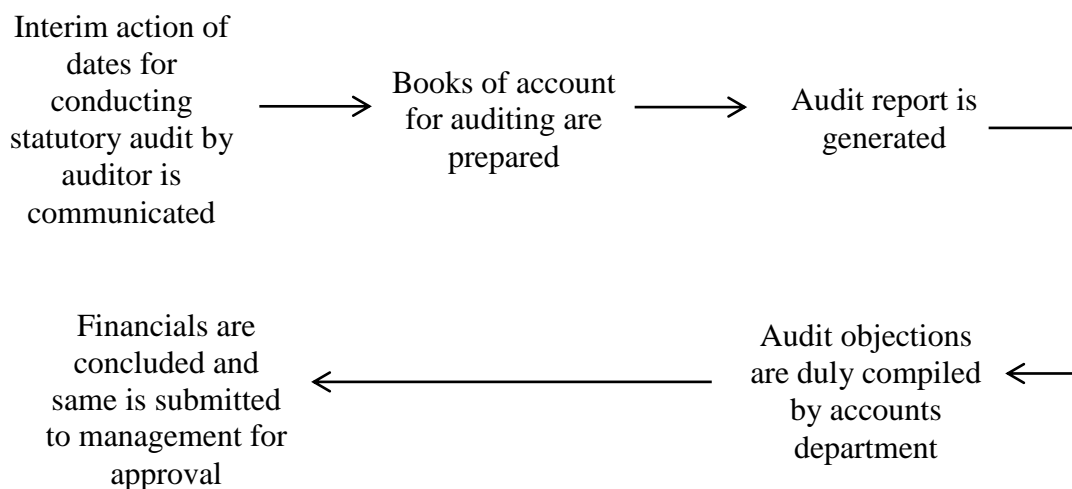


Fig 6.3 Institutional mechanism for internal and external audit

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The major sources of institutional receipts/funding are:

- 1) Student tuition fees
- 2) Funding received from various agencies towards research projects
- 3) Funding received from AICTE towards MODROBS projects
- 4) Funding received from VGST towards establishment of Center of Excellence.
- 5) Funding received from GOI and GOK towards student scholarships

There is no financial deficit. Audited income and expenditure statement for last four years are as in the Table 6.2

Table 6.2 Income expenditure for past four years

Year	Income Rs.	Expenditure Rs.
2015-16	59,0944,313	47,0634,983
2014-15	603,074,429	436,758,091
2013-14	555,196,906	437,359,678
2012-13	170,643,822	157,381,270

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The JMJ trust for infrastructural developments and capital expenditure borrows funds from financial institutions. Funds are also received from AICTE/DST/VGST.-The funds received in the last four years amounts to Rs.4, 779,000.00

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

6.5.1 Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

The institute established an IQAC on 28-06-2014 with the several quality assurance mechanisms within existing academic and administrative system. The composition IQAC cell is shown in Table 6.3. The steering committee and core committee are shown in the Table 6.4 and 6.5.

Table 6.3 Composition of IQAC

Name	Designation and Address
H. D. Maheshappa	Principal, Acharya Institute of Technology
N. Balasubramanya	Dean administration, Acharya Institute of Technology
S. C. Pilli	Professor, Department of Manufacturing Science and Engineering
Kiran G Reddy	Chair person, Director, Acharya Institute Of Management and Science

Name	Designation and Address
R .B. Gaddagimath	Dean, Learning Resources and Academic Support, Acharya Institutes.
Ramesh Hegde	HOD, MCA
Renuka Devi	Administrative Officer
Jain	Social Activity Member
Naveen	Alumni, Key account specialist
V. Arya.V	Student Member, VIII Semester. BE(EEE)
M. Lekshmi	Member Secretary

Table 6.4 IQAC steering committee

Name and Address	Designation
H. D. Maheshappa	Principal, Acharya Institute of Technology
N. Balasubramanya	Dean administration, Acharya Institute of Technology
S. C. Pilli	Professor, Dept. of Manufacturing science
Ramesh. Hegde	HOD, MCA
M. Lekshmi	Asso. Professor, Dept. of EEE

Table 6.5 IQAC Core Committee

Criteria and Key Aspects	Criteria Heads
Criterion I : Curricular Aspects	1. R. Vivekananda, HOD, EEE, 2. P. V. Kumar, HOD, CSE
Criterion II : Teaching – Learning and Evaluation	1. K. Mahesha, HOD, ME 2. Rajeswari , HOD, ECE 3. K. R. Rajanna , HOD Mathematics

Criteria and Key Aspects	Criteria Heads
Criterion III : Research, Consultancy and Extension	1. Sarat Kumar Maharana, HOD, AE 2. S. M. Gopinath, HOD, BT
Criterion IV : Infrastructure and Learning Resources	1. M. R. Prakash, HOD Civil 2. Manas Mukhopadaya
Criterion V : Student Support and Progression	1.A. R. K. Swamy, HOD MT 2. M. Vaggar, Professor 3. G. Mamatha, Professor

Criteria and Key Aspects	Criteria Heads
Criterion VI : Governance, Leadership and Management	1.Ramesh Hegde, HOD MCA 2.Venkatesh Kumar, HOD, MBA
Criterion VII : Innovations and Best practices	1. C. N. Chandrappa, HOD AU 2. Marigowda, HOD, ISE

b. How many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?

The PBAS format was approved by the management and implemented. TLP audit reports are submitted to the principal for perusal and needful action where ever necessary

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, in all, three external members are on the IQAC as shown in the Table 6.3. The external members have been providing strong input to Acharya Institute of Technology towards quality assurance and enhancement. The chairperson of the IQAC is an external member who is an educationalist by profession.

d. How do students and alumni contribute to the effective functioning of the IQAC?

- 1) Quality system at AIT recognises student as the prime focus for all academic activities. The students express their views to enhance teaching – learning process and conduct of various co-curricular / extra-curricular activities in the institute, through online feedback system.
- 2) The students give input to the placement and training officers and necessary mock training and new methods of improving the employability skills are brought in.
- 3) Alumni play a major role to ensure that the students of the institute are well placed in the reputed organization and some of the alumni entrepreneurs directly take passing out students in their own organizations.
- 4) Alumni often conduct several interactive sessions with their team and sensitize the student's employment and entrepreneurship.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

Convener of the core committee the schedules notices and any information from IQAC through mail to the heads of the departments faculty and staff. In case of necessity the communication is over the phone.

6.5.2 Does the institution have an integrated frame work for quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalisation.

Yes,

The institution has adopted an integrated framework for quality assurance of academic and administrative activities.

- 1) Internal Quality Assurance cell continuously acts to improve the academic performance of the institution.
- 2) Calendar of events (CoE) for every semester is released at the starting of the semester. Some of the details comprised in CoE are semester start date, schedule of internal assessment tests, institute fest, annual sports meet and each department add schedule of department activities.
- 3) Faculty growth and development is kept track by maintaining personal file and performance file by each faculty. These files are regularly audited by IQAC.
- 4) Course folder for each course is maintained by the faculty handling that particular course. This folder comprises of course objectives and outcomes, lesson plan, lecture notes, teaching aids used, assignments, question bank, mapping of course outcomes to program outcomes and programme educational objectives. This folder is monitored and audited by concerned department heads and also by IQAC.
- 5) Proctorial system is in place catering to student community by closely monitoring and guiding the students in making them responsible citizens.

6.5.3 Does the institution provide training to its staff or effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

Yes,

Training is imparted to staff members to make them well versed with the institutional quality assurance policy.

- 1) Orientation program is conducted for newly inducted faculty to impart awareness on institutional quality assurance policy.

- 2) The IQAC core committee visits the departments on regular basis and explains the purpose and substantiate the quality practices and the assurance in teaching learning process
- 3) Faculty Pedagogical Development Program are conducted, in areas like presentation and public speaking, emotional intelligence, assertive communication,
- 4) Depending on the faculty appraisal, counseling and workshops are conducted to make the faculty improve their technical, teaching and research skills.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Yes

Academic audit is carried out by the IQAC committee and the report is finally approved by the principal. The short comings listed by the TLP audit committee are communicated to the faculty through the respective heads indicating the areas which need the attention for improvements. The good practices followed by a faculty are also briefed to the faculty through heads and the concern faculty is given a word of encouragement by appreciation.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Audits of IQAC are conducted to ensure the incorporation of academic requirement and uniformity in the documentation. These are in line with any external quality assurance agencies.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Fig 6.4 shows the institutional mechanisms in place to continuously review the teaching learning process.

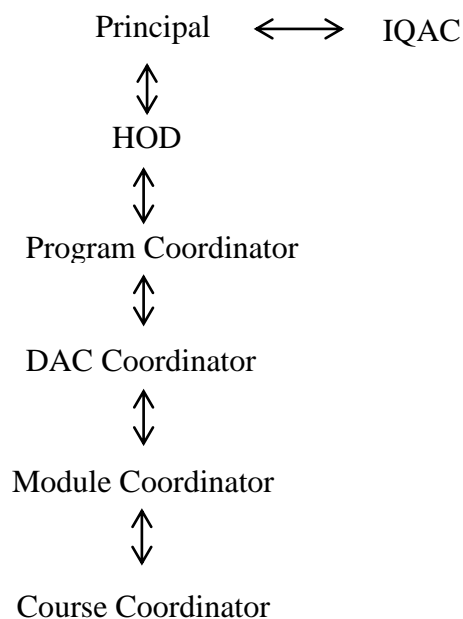


Fig 6.4 Institutional mechanisms to review the teaching learning process

- 1) Course lesson plan is prepared by the individual course coordinator (faculty) and is verified and approved by the head of the department. DAC members of the department review the progress regularly and report to the program coordinator.
- 2) Course lesson plan gives detailed layout of the teaching plan which helps the faculty to plan their time to complete the syllabus and help the student to be aware of the topics being covered in the respective lecture hours.
- 3) Students are communicated the lesson plan along with the course objectives and course outcomes, before the commencement of the semester. 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.
- 4) Teaching learning process is monitored through online feedback system. The process is carried out twice in a semester and the faculty is made aware of his/her shortcoming through report generated by online feedback system.
- 5) Internal test and semester results are the parameters taken in to consideration to improve the process of teaching and learning. Three internal tests are conducted for every course in a semester. After every internal test students are made aware of their shortcomings and suggestions are made by the individual faculty. Result analysis is carried out for each subject at the end of the semester.

- 6) Special attention is given to the slow learners and fast learners. Fast learners are encouraged take up challenging assignments, making the students think in an innovative ways which contribute to the student's growth. Extra attention is paid to strengthen the slow learners.
- 7) Every semester, one week in-house faculty development programme is conducted to improve the teaching style of the faculty by seeking the suggestions from senior faculty members of the department.
- 8) Domain training for the students accompanied by the faculty members is conducted by experts from the industry. This gives an exposure to the industrial requirements and practical training for the students and the faculty as well.
- 9) The TLP audit is carried out on regular basis by the Steering committee of IQAC

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stake holders?

- 1) Display boards at various places and printing of quality assurance policies on the back page of bluebooks and laboratory records.
- 2) Institute website and regular notification are the means by which external stakeholders are communicated about the quality assurance policies, mechanisms and outcomes.
- 3) Department's advisory board meeting is one of the platforms to communicate about quality assurance policies, mechanisms and outcomes.
- 4) Acharya Institute of Technology's governing council meets every year to discuss on the quality assurance policies, mechanisms and outcomes.
- 5) Organizational quality assurance policies, mechanisms and outcomes are also communicated.

Criteria VII: Innovations and Best Practices

7.1 Environment Consciousness

7.1.1 Does the institute conduct a Green Audit of its campus and facilities?

The efforts are to maintain an eco-friendly campus with following practices.

A formal green audit has not been carried out. However, the eco friendliness of the campus is through various measures listed below.

- 1) A qualified and experienced horticulturist and his team take care of greenery.
- 2) About 30 % of the total open area is covered with over 200 different varieties of trees, 200 species of ornamental and medicinal herbs and shrubs.
- 3) Biogas and sewage water treatment plants are installed in the campus.
- 4) Agrochemical pesticides are prepared within the campus by vermi composting.
- 5) The institution has taken its share of social responsibility in reducing carbon emission through renewable energy resources like solar power generation and waste water treatment plant.
- 6) “Go Green” activities like swatch Bharat, Ekta divas, Vana mohotsav, have been conducted in and around the campus
- 7) Nature watch club organizes nature camps and other environmental related activities.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The initiatives are: 1) Energy conservation 2) Use of renewable energy 3) Bio gas 4) Rain water harvesting 5) Sewage water treatment 6) Carbon neutrality 7) Plantation 8) Hazardous waste management 9) e-waste management

1) Energy Conservation

All buildings on campus have unique designs which make all classrooms, laboratories and other utilities well lit and ventilated, thereby minimizing energy consumption. Corridors of the institution have been provided with CFLs. All new buildings have been provided with LED lightings to reduce power consumption. Energy conservation campaign is in place to create awareness among staff and students. Power factor control, auto controlled capacitors bank is installed in mechanical block. Air condition controls in computer labs and library is manually done based on the need. Each block of the institute has individual power control panels and energy meter installations that helps in separate effective monitoring and control of energy consumption through regular awareness campaigns and automatic power factor control.

2) Use of Renewable Energy

Hostels of the institution have solar water heaters 27 in numbers each having 1000 liters capacity. Fig 7.1 shows the details of solar panel.



Fig. 7.1 Solar panel

3) Biogas Units

Biogas plant is installed at hostel which generates cooking gas from the hostel wastes with a capacity of 3000 liters with a daily feed will be approximately 50 kg food waste from hostel mess. Fig 7.2 shows the Bio gas installation.



Fig.7.2 Bio gas installation.

4) Rain Water Harvesting

The rain water is channelized towards the 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. Check dam has been constructed to tap the rain water in to a lake spread over three acres of land with a capacity of 30 million liters. The view of the check dam is shown in the Fig 7.3.



Fig. 7.3 Check dam and lake

5) Sewage Water Treatment

The effluent from the campus is treated and the recycled water is used for gardening. The capacity of the present treatment plant is 3000kiloliters per day shown in Fig 7.4 and 7.5.



Fig. 7.4 Sewage treatment plant



Fig. 7.5 Sludge bed and pump of sewage water treatment plant

6) Carbon Neutrality

Planned parking is made available for vehicles, at the entrance of the campus. There is a total restriction on vehicular movement in the campus thus reducing carbon emission. Dried leaves and wastes are dumped in bio fertilizer compost pits. Fig 7.6 the student volunteers are trained to make news paper bags and distribute to the shops in and around the campus.



Fig 7.6 Vermi composting and shelter

7) Plantation

The institute has planted around 5000 trees and shrubs in and around the academic area to enhance the greenery. Thirty percent of the total open area is covered with around 200 varieties of trees, 200 species of ornamental and medicinal herbs and shrubs. Bio pesticides are prepared and used for organic farming. Reclaimed water is used for gardening. Fig 7.7 shows a view of the Medicinal Plants



Fig 7.7 Medicinal plants and nursery

8) Hazardous Waste Management

The chemicals and waste material which are of hazardous in nature are being disposed off as EPA norms.

9) E- Waste Management

The E- Waste is collected and disposed off periodically by the systems department following the guide lines of the regulatory agencies.

7.2 Innovations:

Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college

In pursuit of excellence in all spheres of the academic, research, extension and administration, the institution strives hard for continuous innovations in quality assurance. The institute has introduced a spectrum of transformative and innovative options to respond to the acquiescent and apparent needs of its stake holders. Many innovative services and practices introduced in the past have positively made a big impact in the effective functioning of the institution. Following are a few innovative practices and services introduced in the last four years.

1) Feedback Mechanism

Student feedback is collected, analyzed and communicated to all faculty members twice in a semester through automated feedback system (192.168.2.178/feedback/). The faculty members with below norms in TLP feedback are counseled by the HOD, Principal, taking corrective measures if required.

2) Teaching Learning Process

For attaining the program educational objectives, the institution has devised special initiatives for the overall development of the students and faculty through fine tuning mechanism such as Acharya Institute Mentor System and IQAC.

3) Bio Metric and ERP – Total Transparency in Governance and Management System

AIT is moving a step towards a paperless environment by entering the era of Enterprise Systems for HR functions from 1st Jan 2016. The faculty and staff attendance is monitored through centralized biometric system. Successful ERP roll out at Acharya helps in optimizing tracking and management of attendance, leave history and increased transparency.

The real value of an ERP lies in its enterprise wide integration, which helps achieve a greater focus on analytics, better & quick decision making and simple easy-to-use interfaces; all of which are appreciated as the system kicks-off.

4) Strong Alumni Network

All the graduating students of AIT enroll to the Alumni Association to keep abreast of the happening in AIT and contribute their might and expertise to the growth of alma-matter. The alumni extend across the globe. This prosperous alumni network brings great value to everyone associated with AIT - from spreading awareness and recognition of the Acharya brand to creating opportunities for and guiding current students through a program called Alumni Knowledge Sharing Series.

The Annual Alumni Meet brings to our alumni a chance to reconnect with their alma mater. It lets them relive the carefree days of their institution lives as they get a chance to visit all the locations they once frequented. These meets gives an opportunity to the alumni to interact with their old friends, classmates and teachers and share their memorable experiences with all. It further provides a platform for the students to share their success stories and continue to build a bond between the passed out graduates, existing students and the faculty.

5) Acharya Habba

Acharya Habba is the annual techno-cultural fest organized in association with its sister institutions. It is a month-long event held in the month of March or April each year. It draws about 30,000 students from more than 300 institutions across Bengaluru and Karnataka. The festival also includes the Acharya International Habba, usually on the first or the second day that has performances by the international students studying in the campus. Started in 2005 as an intra-collegiate cultural fest, Acharya Habba has grown into one of the largest inter-collegiate festivals in Bangalore and Karnataka. Habba is a platform where students imbibe the true meaning of 'Faith and Toil'. This cultural extravaganza eloquently guides the destinies of not only Bangalore but also the entire nation.

6) Engineering Exhibitions

Final year student's project exhibition will be conducted and the best project will be awarded. The other best practices of use of renewable energy resources, recycling the water through sewage water treatment, rain water harvesting and organic farming.

7) Institutional Responsibility Towards Society

Acharya Dr.Sarvepalli Radhakrishnan road which is over 2.5 kilometer is built by Acharya Management for the convenience of local public. National Service Scheme team in the institution with the idea of involving students in the task of national service have organized programs for rain water harvesting and awareness on crackers bursting in

schools. iCare Group is a student activity body in which the talent and enthusiasm of students are in turn used for the betterment of the society. iCare's prime objectives are social awareness, women empowerment, educating rural kids, environmental awareness and skill development.

8) Special Programs on Language Proficiency

Acharya Institutes for foreign Language trains the students to build the language competency and take up certification in proficiency.

9) Remote Access Facility of e-Resources

Journals and e-books are available across the campus 24x7 for access in the campus.

10) Special Programs Initiated Towards Soft Skill and Personality Development for Students

Special placement training programs and personality development programs are conducted for students from first semester to prepare them for placements carriers in higher education and competitive examinations.

11) Innovative Practices to Provide Special Training for Entrepreneurship / Placement/ Career

Students are given trainings on career guidance and startups for those who are interested to be the entrepreneurs fostering the innovative ideas for a successful businessman/women and economic development enhancing the quality of life. BOX-Acharya Institutes Technology Business Incubator (AITBI) has been established in the campus to nurture and outreach knowledge based technology driven innovative ideas; support sustainable growth to develop a socially responsible entrepreneur. The mission is to provide entrepreneurial ambience, mentorship and outreach, to foster innovative thinkers for entrepreneurial venture and to extend all possible assistance to them as well as the society in all aspects of wealth generation, employment creation and social impact.

12) BOX-AITBI would provide an end-to-end cutting edge ecosystem that supports new and emerging technology ventures and enhance their likelihood of success. The proposed incubator renders necessary infrastructure, financial support, business advisory, mentoring, legal assistance, product development, networking, commercialization, protecting intellectual properties, insurance, and tax administration resulting in strategic alliances.

13) Encouragement for R and D

The institution encourages the faculty members to pursue research program at reputed universities. Incentives are given for those carrying out research and publishing books or papers and for participating in seminars/conferences/workshops. Two days of research leave in a month can be availed by the faculty to support and encourage their research work to meet the research guide/refer the outside library/consult other research laboratory etc.

14) Advisory Committee

Inputs for decisions regarding purchase of equipment, set up new labs, conduction of FDPs, Seminars etc., and deputation of faculty are taken by Department Advisory Committee.

15) FDP Programs on Specialized Areas of Skill Development

FDP and regular departmental meetings conducted periodically to discuss and analyze the level of attainment of Program outcomes and course outcomes.

16) Technical Student Forum in Each Department

Forums provide the platform for student driven curricular initiatives. The forums will initiate conducting national level technical events on specified subjects. These forums help Acharya Institutes students in many ways. Not only do they encourage academic enhancement, they also help in nurturing of other skills such as organizing, communication, coordination, leadership and teamwork etc, which form critical components in career scenarios.

7.3 Best Practices**7.3.1 Elaborate on any to best practice which have contributed to the achievement of the institutional objectives and /or contributed to quality improvement of the core activities of the college.****Practice I: Student Mentoring/ Counseling System****Objectives of the Practice**

Objective of the mentorship is to constantly monitor the progress of students in terms of attendance, academic performance, learning capabilities and general behavior. This system also helps to identify and understand students closely about their requirements beyond the curriculum such as habitual deviations, attitudinal aberrations and utilization of facilities and associative growth of personal attributes.

An early warning is provided by mentors' feedback on a periodic basis to the students, parents, heads of the departments and course coordinators on classified needs for their intervention.

Goal

The mentor System is the process of paying personal attention and monitoring of a student's academic progress in institution hours and behavioral process outside the campus by a member of the faculty, so entrusted with the responsibility. The student mentoring system is relatively new in general to a student entering the institute. The students do take some time to familiarize and feel more comfortable with their mentors and most importantly develop confidence in them. The students meet their mentors to consult them regarding the courses to take and to guide them in academics. The mentors discuss the performance in internal assessment test. The mentors also choose to meet their students more regularly for advice regarding matters which may be extra- or co-curricular or otherwise. In addition, the mentor might also choose to see any student with more regularity when their academic performance concerns the mentoring. The mentors is an in-situ guardian for the student assigned to him and shall be frequently in touch with the student, his father and / or mother/guardian, by post / mails / mobile Phone.

The Practice

A group of students with prior consent are agreed to a mentor. A mentor represents a parent away from home for a student, and is the first point of reference for the activities of a student during the complete course of study at the institute. As soon as a student enters into the institute, an assigned mentor does the profiling of the student and his/ her personal and academic details are documented and put on the LAN ([http:// 192.168.2.178/ais/](http://192.168.2.178/ais/)) for the accessibility to the HOD, Principal and Management. Parents are informed through SMS/mail about the attendance, marks of the internal assessment and the results of the semester examination with a prior permission. The students meet their mentors during the time scheduled and seek the advice for their course of study and personal growth. However, depending on the need the mentor conducts more meetings with the concerned students and their parents. The mentor educates the student about the various course requirements, how to choose electives and academic matters. At times the students might just need someone who can give them personal time and attention by listening to their problems. The GUI screen shot of Acharya Institute Proctorial System is shown in Fig.7.8

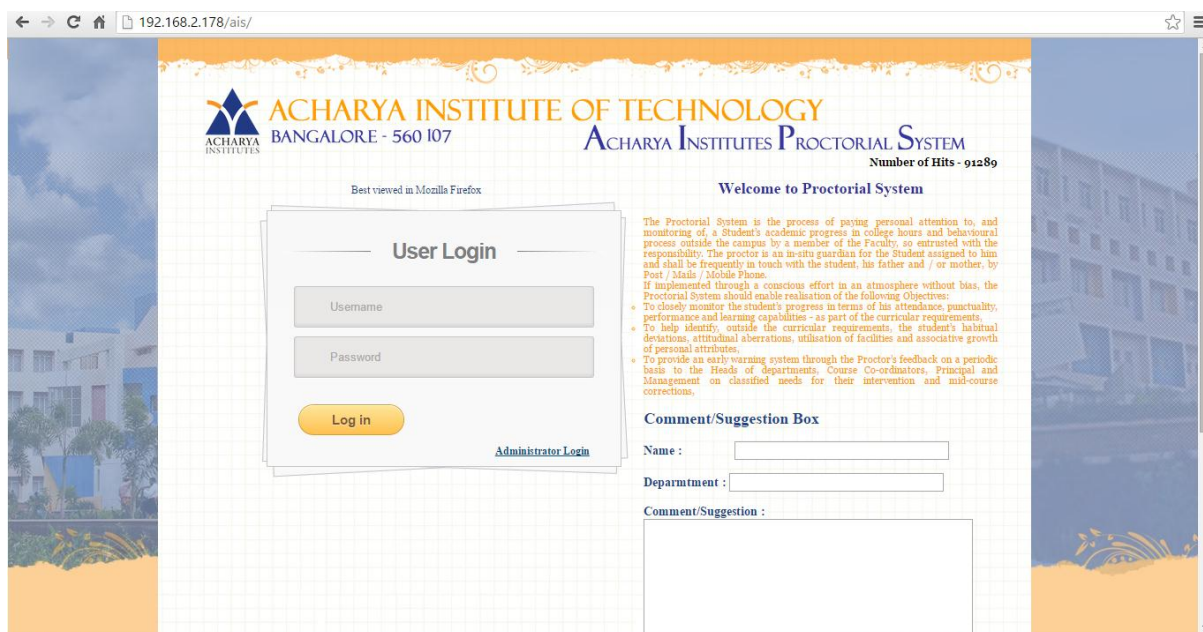


Fig 7.8 GUI of AIPS

Evidence of Success

The most important evidence of success for the mentoring system is from the testimonials of the end-users. The confidence of the students is increased due to the expertise training and measures taken by the institution. The students and their parents have been very happy with the mentoring system. The percentage of drop-outs did reduce greatly after implementing the system. The behavior of the students on the campus in general has witnessed a tremendous improvement and the students are much happier and contented with their course of study at the institute. The pass percentage and the academic performance of the students have also achieved greater heights with the mentoring system. The students are at stress in the initial stages of the course of study.

Problems Encountered and Resources Required

There are certain cases an issue where in the ward does not respond or cooperate with the mentor. In such a case the mentor brings it to the notice of the chief mentor/ HOD /Class teacher. Efforts are made to resolve the problems with the ward. The chief mentor/ HOD / Principal will communicate with parents/Guardians if the case desires to be intimated.

Practice II: BOX- Acharya Institutes Technology Business Incubator (BOX-AITBI)

Objectives of the practice

JMJ Education Society founded by the visionary Shri B Premnath Reddy to create an ambience in the field of higher education since 1990. It is the Bangalore's largest composite

academic facility with a sprawling 120 acre ecofriendly Wi-fi campus housing more than 12,000 students, from 65 different countries, offers 100 programmes in the streams of Engineering, Computer Applications, Architecture, Pharmacy, Management, Biotechnology, Nursing, Law, Science and Technology Bachelor's /Master programs in Art ,Science, Commerce with affiliation to Visvesvaraya Technological University, Bangalore University and Rajeev Gandhi University of Health Sciences, Karnataka.

The Dictum towards nurturing knowledge based, technology driven innovative ideas to support sustainable growth and to develop socially responsible entrepreneurs. AIT stresses on imbibing research culture has yielded societal benefits. This poses a need to establish an incubator which would leverage ideas and realize. The EDC at Acharya Institutes established with the support of AICTE has nurtured and supported the development of entrepreneurs among the students and alumni.

Inspired by the Honorable Prime Minister's vision of Startup India and Make in India, Acharya Institutes is motivated to accelerate the entrepreneurial ecosystem by establishing business incubator AI-TBI to accomplish the mission of encouraging the ambitious young entrepreneurs.

The business incubator AITBI founded in the year 2016 predominantly supports the establishment and growth of technology based startup companies and other compatible technology interventions. AITBI aims contributing to priorities of society at large and build a technology driven entrepreneurial ecosystem that paves overall economic wealth creation.

Goal

The goal is to provide entrepreneurial ambience, membership and outreach to foster innovative thinkers for entrepreneurial venture and to extend all possible hand holding in wealth generation, employment creation and social impact.

The Context

The vision of AITBI is to nurture and leverage innovative minds in embarking on sustainable business ventures for societal benefit.

The Mission of AITBI is to provide for, entrepreneurial ambience, mentorship and outreach, to foster innovative thinkers to be successful entrepreneurs in creating opportunities of employment for the welfare of the society.

Objectives of AITBI is to

1. Foster innovative ideas and support sustainable growth
2. Create a viable entrepreneurial ecosystem.

Infrastructure and Human Capital

In India, the numbers on startups speak volumes about the emergence of startups and it has been projected that by 2020 that there will be 11,500 firms. The AITBI believes that long-term substantial growth can be accomplished by 1) Reducing financial risk by selecting appropriate proposals 2) Maximize the success of the projects by developing appropriate resources

The Practice

AITBI would provide an end-to-end cutting edge ecosystem that supports new and emerging technology ventures and enhance their likelihood of success. The proposed incubator renders necessary infrastructure, financial support, business advisory, mentoring, legal assistance, and product development, and networking, commercialization, protecting intellectual properties, insurance, and tax administration resulting in strategic alliances. The Parent institute's continuous engagement with various verticals of industries and research institutes in India and abroad, strengthen augments the endeavors of the incubator. By virtue of research inquisitiveness, the involvement of the faculty in the technology driven start-ups will reinforce teaching and research, strengthen linkages between education and industry.

Thrust Areas

AITBI, in alignment with the national initiatives and dynamic changes in technology front, is committed to adapt, demystify and deliver emerging needs. AITBI proposes to mainly focus on the thrust areas such as Healthcare and Life Sciences, Clean Technology, Internet of Things, Food Processing and AgriTech, e-Commerce and Automation and Control. Apart from the primary functions, it also facilitates entrepreneurship awareness programs, startup boot camps, mentoring workshops, conclaves, panel discussions etc., to smoothen the functions of the startups in the AITBI. The incubator with its strong network of angel investors and venture capitalists, extend financial support in transforming economically viable ideas to successful commercial ventures.

Reasons for the AITBI

Students graduating from Acharya Institute of Technology should not only seek jobs but should also become job creators. This is the overarching objective of establishing the AITBI. Inspired by the promoters of the Acharya Group of Institutions, who are serial entrepreneurs in their own right, Acharya Institute has the exemplary leadership that is needed to drive a major initiative like the AITBI. From a humble beginning more than 25 years ago, the institution has grown to a huge ecosystem that boasts of excellent infrastructure, motivational

leadership, state-of-the-art technology, community service, global reach and impact, a multicultural environment, diversity in 100+ programs offered in various streams with more than 12000 students from 65 different countries. The focus has been nurturing aspirations and supporting growth of young people so that they can build successful careers for themselves as well as contribute as global citizens.

Young students, who are not afraid to dream, come up with some of the most innovative ideas for solving many problems and challenges encountered in the country. Very often, this creativity and out-of-box thinking could lead to arriving at solutions to many a vexing problem that people face. This requires an ecosystem that welcomes such ideas, nurtures the ones with potential, mentors and funds the entrepreneurs, provide them with support facilities so that they can focus on the idea, network them with the agencies and other enablers and ensure that great ideas do not die premature for want of such facilities and support.

In the last few years, students and Alumni of Acharya have, through the support provided by the institution, proved that they can think up excellent ideas, follow up on their dream, find high quality mentoring and encouragement from within the institution and launch their own startups.

Inspired by Honorable Prime Minister's mission of startup India and make in India initiatives, Acharya is motivated to focus on the growing demand of entrepreneurial spirit among the young minds to host the NIDHI-TBI. New additional infrastructure is currently being created that is more advanced in size, technology and facilities. Institutional support networks with organizations like the IIMs, EDII, IBM, SASKEN, PIA, IITs and many others are already in place. The management of Acharya has been supportive in providing the initial seed funding for the AITBI activities. Corporate networks that will enable the AITBI to generate revenues through consultancy and training are in place.

Peenya Industrial Estate, one of the largest in Asia, is in the immediate vicinity of Acharya Institute. BIEC, which hosts many trade fairs and exhibitions, is another neighbor. The Acharya campus with conducive environment that boasts of a good amount of entrepreneurial activity, micro finance facilities, self-help groups, etc. Acharya Institutes has already made substantial impact to its neighborhood, socially and economically.

Existing Networks

Alumni Network

Acharya Institute of Technology has a well-established alumni network comprising of about more than 8000 students who have graduated from our institution of which about 40+ students have become entrepreneurs.

Network with Various Industries, Industrial Associations and Foreign Institutions

Acharya Institute of Technology has understandings with various industries, industrial associations and foreign institutions. Some of these are as mentioned below:-

Network Within industries and Industrial associations

National Aeronautics Ltd, Sasken Communication Technologies Limited, Moog India Tech. Centre, IBM India Pvt. Ltd., UTL Tech. Pvt. Ltd., SAP India Pvt. Ltd., Dynamatic technologies Ltd, Prasiddi Engineers, Trinity Institute of NDT Technology, Mahindra and Mahindra Ltd., Infosys Campus Connect Program, Edall Systems, TIME, Rooman Technologies.

CII - Confederation of Indian Industry, FICCI - Federation of Indian Chambers of Commerce and Industry, BCIC - Bangalore Chamber Of Industry And Commerce, ABLE - Association of Biotechnology led Enterprises, IMTMA - Indian Machine Tool Manufacturers' Association, NAL -National Aerospace Laboratories, NDRF - National Design and Research Foundation, GTRTC - Government Tool Room and Training Centre, PIA - Peenya Industries Association, Indian Electronics and Semi-Conductor Association, National Design and Research Forum, Indian Horticulture Research Institute, NASSCOM - National Association of Software and Services Companies, EDII - Entrepreneurship Development Institute of India, IAN - Indian Angel Network, Indian Science & Technology, ISBA - Entrepreneurs Park and Business Incubator Association, LTW-Global-Carleton University, IESA - India Electronics & Semiconductor Association

Network with foreign institutions

Acharya Institute of Technology has a very good network with several foreign institutions. Some of these are 1) Illinois Institute of Technology, Chicago, USA 2) Florida International University, Florida, USA 3) Northern Illinois University, Dekalb, Illinois, USA, 4) Harrisburg University, PA, USA, 5) Carleton University, Ottawa, Canada, 6) Trinity Western University, Canada, 7) Old Dominion University, Norfolk, USA, 8) University of Illinois, Rockford, USA, 9) The University Institute of the Coast, Cameron, 10) Waljat Institution of Applied Sciences, Muscat, Sultanate of Oman, 11) University of Applied Sciences, Lubeck, Germany

Evidence of Success

Details on entrepreneurship orientation for faculty/and proposed AITBI team. Acharya Institute TBI has entered into a MoU with Entrepreneurship Development Institute of India (EDII), Ahmedabad, a pioneer institution in the field of entrepreneurship education. To ensure that all the AI-TBI members have a common understanding of entrepreneurship and management of an Incubation Centre, EDII designed a bespoke training program.

A 20 member team underwent the training workshop that was spread over four day residential program at EDII, Ahmedabad. The program was delivered by resource persons from various segments of the startup ecosystem and included Incubation. The program also involved interaction with the CIIE, IIM-Ahmedabad. The core team is also interacting with

NSRCEL, the Incubator at IIM, Bangalore. AI-TBI members are already exposed to entrepreneurship.

Problems encountered and resources required

Since BOX-AITBI is at its inception and yet to convert an idea in to incubation. Till now it is more of discussions and sharing of ideas and handholding. No specific difficulties have been noticed. Table 7.1 shows a few startups by AIT alumni

Table 7.1 Startups by AIT alumni

Name of the Alumni	Organization/Company	Website
Hirpararavi	Nixapp technologies	http://www.nixapp.com
Sauravchoudhary	Shree Balajee industries	http://www.shreebalajiindustries.org
Parsanavipul	Swat Info system	http://www.swatinfosystem.com
Manoranjanjena	Jena informaticspvt. Ltd.	http://www.jenainformatics.com
Revathy K	Finsol	http://finsolconsultancy.com
Nisha G and Mahanthesha H	Keenkite It Solutions Pvt. Ltd.	http://www.keenkite.com/
Ashwin B N	THT Technologies	http://www.thttechnologies.com
Lakshmikanth	Quals Technologies Pvt Ltd.	http://www.qualstech.com
Bhojrajsahu	Jena informaticspvt. Ltd.	http://www.jenainformatics.com
<u>Luitjyoti and kanhaiyalal</u>	Signoryle solutions	http://www.signoryle.com
<u>Balaji j, website:</u>	Shoot bob	http://www.shootbob.com/
<u>Jasmeet singh</u>	Softlogique it solutions (p) ltd	http://www.softlogique.com
<u>Ketanjaiswal</u>	Director, hsrk foods and beverages pvt. Ltd	http://www.aurnate.com
Aravind G.	DOGMA GLOBAL	http://dogmaglobal.com/
Naveen P	Npn-12 Service Network, Bangalore	http://nnp12.com/
Parthsharma	Knight srobocorp, Bangalore	http://knightsrobocorp.com
Prakash Ranjan	Aspirify Technologies	http://aspirify.in



UGC Website: www.ugc.ac.in
Ph. 011-23604414 (CPP-I/Colleges)



Speed Post

विश्वविद्यालय अनुदान आयोग
University Grants Commission
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
Ministry of Human Resource Development,
Govt. of India)

बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002
Bahadur Shah Zafar Marg, New Delhi - 110 002

F. No. 8-348/2016 (CPP-I/C)

February, 2017

The Registrar,
Visvesvaraya Technological University
"Jnana Sangama", Machhe
Belagavi - 590 018
Karnataka

7 FEB 2017

Sub: - Recognition of College under Section 2 (f) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter no. AIT:33:ACM:15/4712 dated 19.10.2016 received from the Principal, Acharya Institute of Technology, Soldevanahalli, Hesarghatta Main Road, Bangalore - 560 107, Karnataka on the above subject and to say that it is noted that the following college is **un-aided/Self-financed** and **permanently** affiliated to **Visvesvaraya Technological University, Belagavi**. I am further to say that the name of the following College has been included in the list of colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head '**Non-Government Colleges teaching upto Master's Degree**':-

Name of the College	Year of Establishment	Remarks
Acharya Institute of Technology, Soldevanahalli, Hesarghatta Main Road, Bangalore - 560 107, Karnataka. AISHE CODE:- C-1319	2000	The college is not eligible to receive Central assistance under Section 12(B) of the UGC Act, 1956 as the University is not declared fit under Section 12 (B) to receive grants.

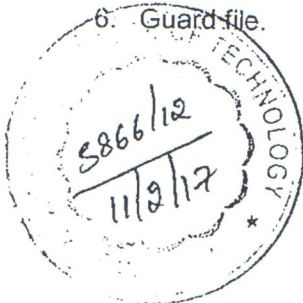
The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Charan Dass)
Under Secretary

Copy to:-

1. The Principal, Acharya Institute of Technology, Soldevanahalli, Hesarghatta Main Road, Bangalore - 560 107, Karnataka.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Principal Secretary (Higher Education), Government of Karnataka, K.G.S. 6th Floor, M.S. Building, R. No. 645, Dr. B.R. Ambedkar Road, Bangalore - 560 001, (Karnataka).
4. The Deputy Secretary, UGC, South-Western Regional Office (SWRO), Prasanna Kumar Block, Palace Road, Bangalore - 560 009, (Karnataka).
5. Section Officer (FD-III Section), UGC, New Delhi.
6. Guard file.



(Sunita Kalra)
Section Officer



All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-West/1-2812360393/2016/EOA

Date: 25-Apr-2016

To,

The Principal Secretary (Hr. & Tech Education)
Govt. of Karnataka, K. G.S., 6th Floor,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2812360393
Name of the Institute	ACHARYA INSTITUTE OF TECHNOLOGY	Permanent Id	1-8141561
Name of the Society/Trust	J M J EDUCATION SOCIETY	Institute Address	SOLDEVANAHALLI, HESARAGHATTA MAIN ROAD, CHIKKABANAVARA POST,, BANGALORE, BANGALORE URBAN, Karnataka, 560090
Institute Type	Unaided - Private	Society/Trust Address	SOLDEVANAHALLI, HESARGHATTA MAIN ROAD,,BANGALORE,BANGALORE URBAN,Karnataka,560107

Cited for change from Women to Co-ed and Vice versa	No	Cited for change of name	No	Cited for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2812360393			Course		Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	Provisional/Collegiate Approval status	Foreign Collaboration/Winning Program/Approval status
Program	Shift	Level		Full/Part Time						
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	BIOTECHNOLOGY	FULL TIME	Vesveswaraiah Technological University, Belgaum	18	18	NA	Yes	NA

Application Number: 1-2812360393

Note: This is a Computer generated Report.No signature is required.

Printed By : AE342121



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ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER NETWORKING AND ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	24	24	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CYBER FORENSICS AND INFORMATION SECURITY	FULL TIME	Visvesvaraya Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	DIGITAL COMMUNICATIONS	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INDUSTRIAL MATHEMATICS	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MACHINE DESIGN	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER SYSTEMS ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCT DESIGN AND MANUFACTURING	FULL TIME	Vesveswaralah Technological University, Belgaum	18	18	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AERONAUTICAL ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	60	60	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AUTOMOBILE ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	60	60	NA	Yes	NA



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ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	BIOTECHNOLOGY	FULL TIME	Vesveswaraiah Technological University, Belgaum	30	30	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CIVIL ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CONSTRUCTION TECHNOLOGY AND MANAGEMENT	FULL TIME	Vesveswaraiah Technological University, Belgaum	60	60	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRONICS & COMMUNICATION ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	INFORMATION SCIENCE AND ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MANUFACTURING SCIENCE AND ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	60	60	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MECHANICAL ENGINEERING	FULL TIME	Vesveswaraiah Technological University, Belgaum	120	120	NA	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MECHATRONICS	FULL TIME	Vesveswaraiah Technological University, Belgaum	60	60	NA	Yes	NA



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ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MINING ENGINEERING	FULL TIME	Vesveswaralah Technological University, Belgaum	120	120	NA	Yes	NA
MANAGEMENT	1st Shift	POSTGRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Vesveswaralah Technological University, Belgaum	240	240	NA	Yes	NA
MCA	1st Shift	POSTGRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Vesveswaralah Technological University, Belgaum	240	240	NA	Yes	NA

The above mentioned approval is subject to the condition that ACHARYA INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

1. The Regional Officer,
All India Council for Technical Education
Health Centre Building
Bangalore University Campus
Bangalore - 560 009, Karnataka
2. The Director Of Technical Education,
Karnataka
3. The Registrar,
Visvesvaraya Technological University, Belgaum
4. The Principal / Director,
ACHARYA INSTITUTE OF TECHNOLOGY
SOLDEVANAHALLI, HESARAGHATTA MAIN ROAD, CHIKKABANAVARA POST,,
BANGALORE, BANGALORE URBAN,
Karnataka, 560090



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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724163 www.aicte-India.org

5. **The Secretary / Chairman,**
J M J EDUCATION SOCIETY
SOLDEVANAHALLI, HESARGHATTA MAIN ROAD,,
BANGALORE, BANGALORE URBAN,
Karnataka, 560107
6. **Guard File(AICTE)**

ಡಾ. ಹೆಚ್.ಎನ್.ಜಗನ್ನಾಥ ರೆಡ್ಡಿ ಬಿ.ಇ.,ಎಂ.ಇ. ಏಪ್.ಡಿ.
ಕುಲಸಚಿವರು

ಉಲ್ಲೇಖ ಸಂ:ವಿತಾವಿ/ಶೈಕ್ಷಣಿಕ/೨೦೧೬-೨೦೧೭/೨೨/ 7695

ದಿನಾಂಕ: 13 JAN 2017

ಅಧಿಸೂಚನೆ

ವಿಷಯ : 2016-2017ನೇ ಸಾಲಿಗಾಗಿ ಮುಂದುವರಿಕೆ: ವಿಸ್ತರಣಾ ಸಂಯೋಜನೆ
ಮಂಜೂರಾತಿ ಕುರಿತು.

ಉಲ್ಲೇಖ : ೧) ಅರ್ಜಿ ದಿನಾಂಕ: ೩೦-೦೧-೨೦೧೬

೨) ಅನುಸರಣಾ ವರದಿ ಸಮಿತಿಸಭೆ ದಿನಾಂಕ:೧೮-೧೧-೨೦೧೬ & ೧೯-೧೧-೨೦೧೬

೩) ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ : ೦೩-೧೨-೨೦೧೬.

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿನಿಯಮ ೧೯೯೪ರ ೪೦ರ (೯)ನೇ ಪ್ರಕರಣದಡಿ ತಮ್ಮ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿರುವ ಪ್ರಸ್ತುತ ಈ ಕೆಳಗೆ ಕಾಣಿಸಿದ ಕೋರ್ಸುಗಳನ್ನು ಬೋಧಿಸಲು 2016-2017ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿಗಾಗಿ ಸಂಯೋಜನಾ ಮಂಜೂರಾತಿ ಅಧಿಸೂಚನೆಯನ್ನು ಅನುಸರಣಾ ವರದಿ ಸಮಿತಿ ಸಭೆಯು ವಿಧಿಸಿರುವ ಷರತ್ತುಗಳಿಗೆ ಒಳಪಟ್ಟು ವಿತಾವಿ ತನಿಖಾ ಸಮಿತಿಯು ಶೈಕ್ಷಣಿಕ ವರ್ಷ 2017-2018ನೇ ಸಾಲಿಗೆ ಭೇಟಿ ನೀಡುವ ಪೂರ್ವದಲ್ಲಿ ಪೂರ್ಣಗೊಳಿಸುವ ನಿರ್ಬಂಧನೆಗೊಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ.

ನಿರ್ಬಂಧನೆಗಳು:

1. To furnish the acquaintance roll of the newly recruited/ promoted faculty.
2. To appoint faculty as per the observations of the previous LIC and as per AICTE - As informed vide this office letter VTU/Aca/2016-17/A-11/3338(a) dt.25-08-2016.
3. ಎಐಸಿಟಿಇಯು ಕಡ್ಡಾಯಗೊಳಿಸಿರುವ ಎಲ್ಲಾ ತರಹದ ನಿಯತಕಾಲಿಕಗಳನ್ನು ಹೊಂದುವ ಷರತ್ತಿಗೊಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ.

೧	೧ ಮತ್ತು ೨ನೇ ವರ್ಷದ ಪದವಿ ಕೋರ್ಸುಗಳು	ಅನಂ	ಕೋರ್ಸುಗಳು
	ಬಿ.ಇ.	೧.	ಎರೊನಾಟಿಕಲ್ ಇಂಜಿನೀಯರಿಂಗ್
		೨.	ಆಟೋಮೋಟೈವ್ ಇಂಜಿನೀಯರಿಂಗ್
		೩.	ಕನ್ಸ್ಟ್ರಕ್ಷನ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್
೨	೧ ಮತ್ತು ೨ನೇ ವರ್ಷದ ಸ್ನಾತಕೋತ್ತರ ಕೋರ್ಸುಗಳು	೧.	ಕಂಪ್ಯೂಟರ್ ನೆಟ್‌ವರ್ಕ್ ಇಂಜಿನೀಯರಿಂಗ್
		೨.	ಮಷಿನ್ ಡಿಜೈನ್
		೩.	ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ & ಇಂಜಿನೀಯರಿಂಗ್
		೪.	ಪವರ್ ಸಿಸ್ಟಮ್ಸ್ ಇಂಜಿನೀಯರಿಂಗ್
		೫.	ಬಯೋಟೆಕ್ನಾಲಜಿ
		೬.	ಡಿಜಿಟಲ್ ಕಮ್ಯುನಿಕೇಷನ್ ಇಂಜಿನೀಯರಿಂಗ್

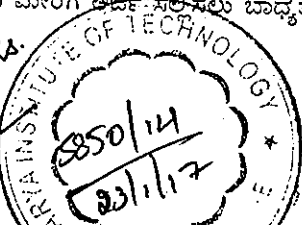
- BE in Manufacturing Science & Engg., Mining Engg. M.Tech. in PDM & Cyber Forensic & Information Security ಕೋರ್ಸುಗಳು 2013-2014 & 2014-2015ನೇ ಸಾಲಿನಿಂದ ಪ್ರಾರಂಭವಾಗಿದ್ದು ಆದರೆ, ರಾಜ್ಯ ಸರ್ಕಾರದಿಂದ ಇಲ್ಲಿಯವರೆಗೆ ಆದೇಶ ಬಂದಿರುವುದಿಲ್ಲ. ಆದ್ದರಿಂದ ಸರ್ಕಾರದಿಂದ ಆದೇಶ ಪಡೆದು ವಿ.ತಾ.ವಿ.ಗೆ ಕಳುಹಿಸಿದ ನಂತರ ಮುಂದಿನ ಕ್ರಮಕೈಗೊಳ್ಳಲಾಗುವುದು.

ಅಡಕ : 2016-17ನೇ ಸಾಲಿನ ಹೊಸ ವಿಷಯ / ವಿದ್ಯಾರ್ಥಿ ಪ್ರಮಾಣ ವ್ಯತ್ಯಯದ ಕುರಿತು ವಿ.ತಾ.ವಿ.ಯ ಶಿಫಾರಸ್ಸಿನ ಪ್ರತಿಯನ್ನು ಲಗತ್ತಿಸಲಾಗಿದೆ.

ವಿಶೇಷ ಸೂಚನೆ : ಸದರಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಸರ್ಕಾರ / ಎಐಸಿಟಿಇಯಿಂದ ಅನುಮೋದಿತವಾದಲ್ಲಿ ಮಾತ್ರ ಅನ್ವಯಿಸುತ್ತವೆ. ಈ ವಿಷಯದಲ್ಲಿ ವಿತಾವಿಯ ಶಿಫಾರಸ್ಸುಗಳು ಯಾವುದೇ ಹಕ್ಕುಬಾಧ್ಯತೆಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲವೆಂದೂ/ ಮಹಾವಿದ್ಯಾಲಯ ಉಪವಿಭಾಗದ ಅಧಿಕಾರಿಗಳಿಗೆ ಈ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ ಅರ್ಜಿ ಸಲ್ಲಿಸಲು ಬಾಧ್ಯತೆ ಇಲ್ಲವೆಂದು ತಿಳಿಸಲಾಗಿದೆ.

ಕುಲಸಚಿವರು

12.01.17



tem/ES2c/All HODs
A. Admissions
23/1/17

ವಿಶ್ವೇಶ್ವರ

"ಜ್ಞಾನ"

ಕುಟುಂಬ

ದೂರವಾಣಿ : (0824)
ಕ್ಯಾಕ್ಸ್ : (0824)
ಇಮೇಲ್ : regl@vishveshwar.com
ವೆಬ್‌ಸೈಟ್ : www.vishveshwar.com

ಇವರಿಗೆ,

ಪ್ರಾಂಶುಪಾಲರು,

ಆರ್ಜಾಯ್ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ,

ಬೆಂಗಳೂರು - ೫೬೦ ೧೦೭.

ಪ್ರತಿ ಸಾದರಪೂರ್ವಕವಾಗಿ ಮಾಹಿತಿಗಾಗಿ ರವಾನಿಸಲಾಗಿದೆ:

೧) ನಿರ್ದೇಶಕರು ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಬೆಂಗಳೂರು -೧.

೨) ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ವಿ.ತಾ.ವಿ. ಬೆಳಗಾವಿ,

೩) ವಿಶೇಷಾಧಿಕಾರಿಗಳು, ವಿ.ತಾ.ವಿ. ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ, ಬೆಂಗಳೂರು.

ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ: ಕುಲಪತಿಗಳ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಿ.ತಾ.ವಿ, ಬೆಳಗಾವಿ.

12.01.17
ಕುಲಸಚಿವರು
12/1
12



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವವರಾಹ ತಂತ್ರಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Balagavi - 590 013, Karnataka State, INDIA

Phone : (0831) 2405463
Fax : (0831) 2405467
Email : registrar@vtu.ac.in
website : www.vtu.ac.in

Dr. H. N. Jagannatha Reddy B.E., M.E., Ph.D.
Registrar

Ref: VTU/Aca/2016-17/A-11/7723

Date: 13 JAN 2017

To,
The Principal,
Acharya Institute of Technology,
Bengaluru.

Sir,

Sub: Permanent Affiliation status for academic year 2016-17 reg.

With reference to the above subject, you are hereby informed that, the following courses are recommended for Permanent Affiliation from the academic year 2016-17 to 2021-22 subject to the approval from the State Government.

UG Courses:

1. B.E. Civil Engineering
2. B.E. Mechanical Engineering
3. B.E. Mechatronics

P.G Courses:

1. M.Tech. in Biotechnology

Further, after the receipt of the State Government order, the Notification for the Permanent Affiliation to the above mentioned courses will be issued.

Thanking You,

Yours faithfully

[Signature]
12.01.17
REGISTRAR





Visvesvaraya Technological University

“Jnana Sangama”

Belagavi - 590 018, Karnataka State

Dr. K.E. Prakash
REGISTRAR

Phone : (0831) 2498100

Fax : (0831) 2405467

Ref: VTU/Aca /Pmnt. Affln/2015-16/ 6028

Date : 10 OCT 2015

NOTIFICATION

Subject : Grant of Permanent Affiliation to Acharya Institute of Technology,
Bengaluru- reg...

Ref: 1. VTU Executive Council Res. No. 2.1.5 dt: 01-02-2013
and 2.1.2 dt: 17-06-2013

2. Karnataka State Govt. approval vide ED 29 UTV 2015 dt: 13-07-2015

3. Hon'ble Vice-Chancellor's approval dt: 24-09-2015

With reference to the above and by exercising powers conferred on Visvesvaraya Technological University by section 40(6) VTU Act 1994, the following courses of *Acharya Institute of Technology, Bengaluru* are hereby notified as Permanently Affiliated Courses to the University w.r.t. the academic years mentioned against their names. This notification is subjected to the following conditions:

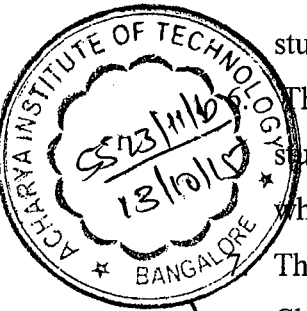
Conditions:

1. The college shall have to abide by all the rules and regulations of the University meticulously without fail,
2. Admissions shall be made within sanctioned intake of the courses,
3. The College shall strictly follow the Rules & Orders of the State Government and Statutes & rules / regulations,
4. The college shall have to comply with the conditions laid down by Local Inquiry Committee of University and AICTE,
5. The college shall have to offer the courses for the better and overall development of students; the college management / Principal have to treat the teaching faculty and students cordially,

The college may retain the original markscard and other documents until admission of student is approved by the University or upto maximum period of six (06) months, whichever is earlier,

The students shall not be made to suffer when requested for No Objection Certificate for Change of College and shall not collect any amount in any form by the college management and

Roster has to be followed in admissions.



Dr. Admissions
Aca / Pmnt
13/10/15

K. Prakash

REGISTRAR

Visvesvaraya Technological University
Belagavi



Visvesvaraya Technological University

“Jnana Sangama”

Belagavi - 590 018, Karnataka State

: Courses Granted Permanent affiliation :

S. No.	Course	Year of Permanent Affiliation
1	B.E. (Information Science & Engineering)	2015-16 to 2017-18
2	B.E. (Bio-Technology)	
3	B.E. (Computer Science & Engineering)	
4	B.E. (Electronics & Communication Engineering)	
5	B.E. (Electrical & Electronics Engineering)	
6	Master of Business Administration	
7	Master of Computer Applications	


REGISTRAR

To,

The Principal,
Acharya Institute Technology,
Bengaluru

Copy for information to:

1. The Principal Secretary, Higher Education Department, M S Building, Bengaluru
2. The Director Technical Education, Palace Road, Bengaluru
3. The Registrar(Eval.), VTU, Belagavi
4. The Secretary to VC, VTU, Belagavi
5. The Special Officer, VTU Regional Office, Bengaluru