



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**ADI SHANKARA INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

**VIDYA BHARATHI NAGAR, MATTOOR ROAD, KALADY, ERNAKULAM
683574**

www.adishankara.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

August 2024

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The **Adi Shankara Institute of Engineering & Technology (ASIET)** was established in the year 2001 with an aim to provide **value-added technical and management education** with a flair for **professional excellence rooted in ethical values**. Under the aegis of the **Sringeri Mutt**, the institute is run by the **Adi Sankara Trust** with a legacy of **running multiple educational institutions like Sree Sankara College, Sree Sarada (Sanik) School, Adi Sankara Training College, Sree Sarada Special School and DDU Kaushal Kendra** for more than 50 years.

With the benign blessings of **H.H. Sri. Sri. Bharati Tirtha Mahasannidhanam** and **H.H. Sri Sri Vidhushekhara Bharati Sannidhanam**, the institute believes in adopting a proactive approach for the overall development of the students, fostering **Innovation** and **Excellence** under its **Green Canopy**.

Affiliated to APJ Abdul Kalam Technological University (APJAKTU), Kerala and **recognised by AICTE**, **ASIET** offers **Under Graduate (B.Tech) programs** in Civil Engineering (CE), Computer Science and Engineering (CSE), Computer Science and Engineering (Artificial Intelligence) (CS(AI)), Computer Science and Engineering (Data Science) (CS(DS)), Electronics and Biomedical Engineering (EB), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Mechanical Engineering (ME) and Robotics and Automation (RA). We also offer **MBA, MCA, M.Tech** in VLSI & Embedded Systems, Communication Engineering, Power Electronics & Power Systems and Computer Science & Engineering in addition to **Ph.D** programs in both Technology and Management.

ASIET was the **First self-financing technical education centre in Kerala to be awarded the ISO 9001:2008 certification**. Currently, **all the 5 eligible UG programs; CSE, ECE, EEE and ME (Since 2018) and CE (Since 2024) are accredited by the NBA**

Last year, a **fund of Rs. 2.98 Crores** was granted by **Ministry of Electronics and Information Technology, Govt. of India**, for a collaborative project with **CMET, Kerala**.

In recognition of the exemplary initiatives, Our NSS Unit and the Program Officer received the President's National Award for the year 2020-21. One of our student volunteers attended the last Republic Day parade at New Delhi with the NSS Contingent.

In 2005 and 2010 Hon. President of India, Dr. APJ Abdul Kalam, visited our Campus.

Vision

Adi Shankara Institute of Engineering & Technology commenced its journey on **August 31, 2001**, under the affiliation of **MG University, Kottayam, Kerala** welcoming 180 students across four undergraduate programs: **Computer Science and Engineering (CSE), Information Technology (IT), Electrical & Electronics Engineering (EEE), and Electronics & Communication Engineering (ECE)**. The institution was established with a **Crisp and Clear Vision**.

- **To emerge as a Centre of Excellence in Engineering, Technology and Management by imparting quality education, focussing on empowerment and innovation.**

Upholding the vision, we expanded our horizons by adding more programs catering more students, in the subsequent years of our journey. Adi Shankara Business School (MBA in 2004), Applied Electronics & Instrumentation (AEI in 2005), Mechanical Engineering (ME in 2006), and Civil Engineering (CE in 2012) was started. In 2020, B.Tech programs in Computer Science and Engineering (Artificial Intelligence) and Robotics & Automation, were introduced. Further extending the spread of our wings, B.Tech programs in Electronics and Biomedical Engineering (2021), Computer Science and Engineering with a specialization in Data Science (2022) and Master of Computer Applications (MCA, 2022) was also started. In between, 4 M.Tech Programs and Ph.D programs were also launched increasing their accessibility to students and promoting Higher Education.

Mission

Fostering the Vision of the Institute, Our Mission is to:

- Impart quality professional education for total upliftment of the society.
- Create congenial academic ambience that kindles innovative thinking and research.
- Mould competent professionals who are socially committed and responsible citizens.

In this line, our Industry collaborations with **Infosys** began in 2006, followed by **TCS** in 2008 and **Google** recognized ASIET as an **Institute Partner in 2014 promoting innovation under the upgraded academic ambience.**

In 2015, the institute launched the **APJ Abdul Kalam Innovation Award** and **Adi Shankara Young Scientist Award** in 2016, to promote professional knowledge and education in the society.

Developmental activities, Collaborations outside the campus and the establishment of the ASAP Skill Development Centre, IEDC and a Technology Business Incubation (TBI) Centre give ample opportunities for our students to get trained and streamlined into competent professionals.

We are also in the forefront of social and environmental activities instilling values and developing committed citizens for the future.

To endorse the Vision and Mission of the Institute we follow the following Quality Policies.

- We are committed to the total upliftment of the society by imparting quality professional education.
- We aim at moulding totally competent professionals with ingenuity, adaptability, social commitment and ethical and spiritual values by creating a congenial academic ambience that kindles innovative thinking.
- We continually upgrade our Quality Management System through empowerment and involvement.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- **Leadership and Acceptance**
 - The institute is **guided and mentored** by **Visionary leaders** of high repute and plenty of experience. Their directives and **support in activities are exemplary**. The academic ambiance and institutional values are **well accepted and created a brand image in the society** over the years, making it a prime choice for the engineering aspirants.
 - Encouragement and Active Support from **Alumni and PTA**
- **Accreditations and Rankings**
 - All the eligible UG programs are accredited by the **National Board of Accreditation**, New Delhi. 5 UG Programs {CSE, ECE, EEE & ME (since 2018) and CE (since 2024)} are NBA accredited.
 - ASIET was adjudged as the **Band Performer in ARIIA ranking** in 2022.
 - Participation in other ranking and accreditation process is always encouraged.
- **Excellent placement** records with active **Training and placement cell**
- **Research and Consultancy** culture
- **Heterogeneous student community promoting Gender Equity**
 - Includes students from varied culture and ethnicities all over the country with students with their roots from other states like Jammu and Kashmir, Punjab, Chhattisgarh etc.
- Well-functioning **library and well-equipped laboratories**
- **Scholarship to meritorious students** by college management
- **Serene Academic Environment fostering overall development of students**
 - Follows **Choice-based credit and semester** system
 - Effective faculty **advisor and mentoring** system
 - **Conducive peaceful environment** for learners with ample facilities
 - **Dedicated Faculty** with qualification and experience
 - **Well established TBI and MSME incubation centre**
 - Service-minded **non-teaching staff**
 - **Wi-Fi connected campus** with **surveillance cameras** at strategic points
 - Separate Hostel facilities for ladies and Gents
- **Beyond Class Room Engagements**
 - **Vibrant NSS units winning state and national awards**
 - **Very active Chapters of Professional Bodies and Societies**
 - Flagship **National techno cultural festival - BRAHMA**
 - **Extension and Outreach** activities serving Society
- **Green Campus Initiatives**
 - **Eco-friendly campus with a vast Green Canopy**
 - **Nature and Energy conservation** initiatives like;
 - **Solar Power Plant**
 - **Rain water Harvesting**
 - **Waste Management System**
 - **Green and Energy Audits**
- **Very well connected** by air, road and rail

Institutional Weakness

- **Industrial collaboration and revenue generation** to be improved.

- Major **funding** from venture capitalists to be improved.
- Lack of foreign exchange program.
- **Lack of Autonomy** - The lack of autonomy considerably hinders the institute's ability to engage in the development of curriculum incorporating newer technologies and advancements in engineering and timely revisions. This limits the opportunities for the institute to adapt with the dynamically evolving educational landscape around the world.
- **Pan India Admission** to be improved.

Institutional Opportunity

- To develop as a Technological University
- High reputation and social acceptance
- Capitalise on the Government's start-up policy for further development
- Industrial exposure and tie-ups
- Embark on the Fast-changing technology.
- Encouragement and support from Alumni Community
- Collaborative Research with National and International Organization
- Exchange programs
- Funded/sponsored projects at National and International levels
- Revenue generation through consultancy
- Proximity to Airport, Industrial Capital of the state – Cochin.

Institutional Challenge

- Transforming ourselves into a Centre of Excellence.
- As an affiliated institution, the ability to offer advanced courses is restricted.
- Brain drains of professional talents.
- Declining number of good research aspirants.
- Retention of competent faculty members.
- Attitudinal and behavioural problems of students
- Core Company's placement is to be improved
- Shortage of good scholars opting for the teaching profession.
- Filing patents and high-quality research publications
- Developing a creative and innovative research culture
- Twinning Programs
- Implementation of National Education Policy (N.E.P 2020)

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Adi Shankara Institute of Engineering and Technology, affiliated to APJ Abdul Kalam Technological University, **adheres to the University curriculum, syllabi and academic calendar. The institute follows Outcome Based Education incorporating Ethics, Gender Equity, Human Values, Environmental aspects and Sustainability into the Curriculum.**

Internal Quality Assurance Cell (IQAC), with the support of the **Department Advisory Boards and Programme Assessment Committees** ensures the developments and sustenance of the Institution. IQAC plans the **Institute Academic Calendar**, in line with the University's **Calendar**. Faculty members are actively involved in the **curricular design of the university** as members of various **Boards of Studies** of the university.

LMS platforms accessible for students and parents, **Continuous Assessments, Audits, Surveys/Feedbacks** etc. ensures the effectiveness of the teaching-learning process.

During the assessment period 2018-2023:

5963 students successfully completed 178 certificate/value-added courses/MOOCs, benefitting 59.29% of students.

1361 students (65.06%) engaged in Project/Internship/Industrial Visits during the academic year 2022-23.

In addition to **Pedagogical and ICT-enabled instructional approaches** for effective curriculum delivery, extra care for **Slow learners, internships, and value added/skill development courses** offered etc. prepare our students for the future. Participation in inter/intra institute activities like **seminars, workshops, paper presentations, technical fests** etc. also adds to this.

Activities of Clubs/Cells/Professional Bodies instil **moral values and virtues** in stakeholders along with enhancement of domain knowledge. **IPR cell** promotes **professional ethics**, encourages respect for original work and **fosters a culture of innovation and research integrity**. **Gender equality** is also ensured through the involvement of various cells and committees.

Institution promotes sustainable practices like **rainwater harvesting, green campus, waste management and installation of a solar power plant** to enhance **commitment on preservation of nature; reducing the carbon footprint**. Courses like **Introduction to Sustainable Engineering, Disaster Management, Environment Health and Safety** etc., adds **awareness on conservation and sustainable development** among students.

Activities like 'Tree plantation' and 'Clean India - Swachh Bharat Campaign', Awareness sessions, seminars, field visit, nature camps, cleanliness drives etc., of clubs like **"Boomithrasena"** and the **energy and green audits** instil interest in **nature-conservation**.

A **transparent feedback mechanism** and disseminating the reports in the institute website is also practiced at ASIET.

Teaching-learning and Evaluation

ASIET practices **Outcome-Based Education (OBE)** defining and assessing **learning outcomes** to encompass the broader institutional culture, benefiting all stakeholders.

Key highlights are:

- **Project based learning** focusing on societal issues
- **Industry supported/Research laboratories and Internships** fostering comprehensive development of students and staff members.
- **School outreach programmes** as content beyond classroom learning.
- **Value added courses**, participation in **funded projects**, journal **publication** and application for **patents etc.** develop esteem and self confidence in the students
- **Creative undertakings beyond the scope of academic coursework** such as “Punarjani”, “Amrit Sarovar - Jal Dharohar Samrakshan”, Road Surveys, “Rebuild Kerala” initiatives, “River Rejuvenation”, “Vidyuth”, “Jyothirgamaya”, Market Surveys, Energy audit, Water quality Testing, Equipment repairing & Wiring.
- **Participative learning** encouraged through **IEEE, IEDC, Dept. Associations and other cells/clubs** activities which include seminars, **workshops, Interactive sessions by experts, Exhibitions and contests** etc.
- **Simulation assignments, MOOC courses, Seminars and Group Discussions, Field visits & Industrial Visits.**
- Participation in **National Innovation Contest, Smart India Hackathon, Professional Society Events, Project Expos, Gamathon, etc.**
- **Projects in collaboration with industry and academia** helps to acquire practical knowledge through interaction with industrialists/scientists.
- Active involvement in Covid-19 projects and flood relief/rehabilitation activities.
- **Fair academic evaluations and assessments in line with University Regulations.**
- Time-bound and efficient **Grievance Redressal System** and **special consideration for Divyangs.**

Quantitative Metrics:

- Enrolment percentage: 71.3%
- Reserved seats filled: 31.56 %
- Student-Teacher Ratio: 15.49:1
- Full-time teachers: 100% of sanctioned posts
- Full-time teachers with Ph.D. Or higher: 22.68%
- Pass percentage: 84.26%

The POs and COs are formulated in line with the standards and disseminated among the stakeholders. Effective approaches to **assess and monitor student performance**, through the **attainment of POs and COs**, are practiced prioritising **Continuous improvement. Course Delivery Manuals** serve as a comprehensive guide for instructors. **Grouping of courses under Streams** helps to plan activities accommodating **content beyond syllabus.**

Course committees and Advisory committees serve as a **platform for the students** to discuss progress and concerns and effective corrective actions can be planned.

Research, Innovations and Extension

With utmost priority for research and extension activities, **Centre for Innovation, Incubation and Entrepreneurship (CIIE)** spread over a carpet area of 10000 sq.ft, integrating the **IEDC, TBI** etc. elevates the

entrepreneurial ecosystem. The state-of-the-art **FAB Lab, Research Cell, IIC and IPR Cell** add value to the centre.

We embed **Values and Traditional Indian Knowledge** with engineering to promote the **Indian Knowledge System (IKS)**. Our **ASDA** offers online courses incorporating **Natya Shastra, Vastu Shastra, Vedic Mathematics, Yoga** etc.

NSS, Ranger Rover unit of Hindustan Scout and Guides and forums/activities like **Home for Homeless, Vidyuth, Punarjjani, Paristhithikam, Urjjakiran**, etc. undertake **Community Engagement, Extension and Outreach** activities, addressing key social issues.

Project Ganitham - Support given for government school students in mathematics, **Career Guidance classes** and **Entrance coaching sessions** for higher secondary students, **Uddyotana** – Training program for Teachers etc. adds our **commitment in building future generations**.

ASIET has adopted **7 neighbourhood villages (NSS - 2 and under Unnat Bharat Abhiyan - 5)** for the **rural development initiatives**.

ASIET's Covid interventions like, **COVID care website** and our own developed **Adi Shankara Jeeva Vaayu - A range of Medical Ventilators** etc., were much appreciated. We were in the forefront of the **relief** activities during the **2018 Kerala Floods**.

Our blood donation camps also received recognitions for **most in numbers**.

We promote **collaborative activities** with various **Academic Institutions and other Organisations** of high repute.

During the assessment period the major accomplishments are:

- **Funds to the tune of 38.64 lakhs** have been received for the **37 R&D projects**. Adding to this the faculty's scholarly output is reflected in the **publications**.
- **52 workshops, seminars, and conferences (International and National)** etc. were organised to **foster research, innovation, entrepreneurship and IPR**.
- **113 Extension and Outreach programmes**.
- **43 collaborations** were initiated.

In recognition, **ASIET** has received **51 awards and appreciations** including the **prestigious President's NSS National Award for the Best Programme Officer and Best NSS Unit in India** for the year 2020-2021.

Infrastructure and Learning Resources

Spanning over **10 acres, with a built-up area of 69784 m²**, **ASIET** aims at creating a **serene environment for blended/hybrid learning** leading to **academic excellence**.

Major infrastructure facilities include

- **Digital Classrooms** with **Interactive Boards**, LCD Projectors, Smart screens, **ICT facilities, LMS and**

ERP Platforms, Virtual Lab.

- **Optical Fiber Cable connected LAN and 85 Wi-Fi access points** provide seamless internet connectivity throughout the campus.
- **76 laboratories including Hi-Tech labs, Fablab and the Central Computing facility.**
- **13 High performing Workstations**
- **860 computers** with automatically upgraded Microsoft OS under **Microsoft Campus Licensing Agreement.**
- 64 printers/scanners
- **Energy management system** incorporating 35 UPS systems and **2 generators and the Solar power plant**
- **Comprehensive CCTV coverage with 74 IP cameras for security**
- **Central library with 38146 volumes covering 14093 titles and 97 journals, 15 computers and seating of 120.**
- Knimbus platform, ILMS using KOHA, OPAC and Bar coding
- **Subscriptions to EBSCO, Turnitin, National Digital Library and e-journals.**
- Dedicated section on **Indian Knowledge systems.**
- **Two Auditoriums, 7 seminar halls, two conference halls and a board room.**
- **Badminton, Basketball, Volleyball, Football and Cricket courts adding to other indoor games and gymnasium.**
- Facilities aligned with the **Hon. PM's Fit India movement and Yoga for Well-being.**
- **Common facilities include Canteen, Bank, ATM, reprographic centre, store, medical clinic, sick room, biometric attendance for staff, ramps, parking facilities and wheel chair for Divyangs, adequate fire and safety mechanism.**
- **Nineteen college buses covering 4 districts** to commute staff and students and an **ambulance**
- Centralized valuation camp of the APJ AKT University
- **IEDC and TBI fostering innovation** with 10 active startups currently.
- **Adequate Waste management systems and rainwater harvesting**
- **'ZOOM webinar' platform** for hosting online sessions/ webinars/ meetings/ conferences etc. with a capacity of almost 1000 participants.

During the assessment years:

- **Expenditures for infrastructure development was 21.85% while 30.73% was for maintenance.**
- **Student computer ratio of 3:1** (for latest completed academic year)

Student Support and Progression

We maintain an all-inclusive approach toward student support. We provide scholarships on merit cum means basis and actively support students for financial aids through schemes of public/private agencies. We always keep vigil on arranging skill enhancement trainings and proper career guidance to make our students ready for the industry. The transparent grievance redressal mechanisms, avenues for extracurricular and alumni engagements also make ASIET exceptional.

During the assessment period (2018-2023):

- **72.42% of the students (7283 out of 10056)** benefited from scholarships. The amount distributed sums to a marvellous figure of **Rs.21,64,76,576/-.**

- **60.09%** of final year students secured **placements** in reputed organisations **or pursued higher education** with an overall **success rate** of **15.75%**, in state/national/international competitive exams.
- **60.12%** of students took advantage of the guidance for competitive examinations and career counselling offered by the Institution
- **Constant and continuous** encouragement from the intuition helped our students to win **33 accolades** in **sports and cultural events** with representation in **41.6 programs per year** on an average.
- **136 capacity building and skill enhancement initiatives** were arranged, with due emphasis on **Soft Skills, Life Skills, ICT and Language and Communication** etc. The “**Skill India**” campaign by the **Hon. PM, and the roll out NEP**, has provided further momentum for these activities.

We value **Alumni** as an integral part in our success. The college has a registered **Alumni association - AAKASHIEN (Alumni Association of Kalady Adi Shankara Institute of Engineering and Technology)** with around **7,000 members** and a **corpus fund** of **Rs. 67 lakhs**. Contributions of **Alumni Association** are not limited to **annual awards, financial supports and sponsorships** for programs and campus upgrades. Alumni also share insights as **resource persons** and facilitate **internship opportunities, bridging Industry-Academia gap. Annual and Decennial gatherings** along with active participation in institutional events elevates the interactions to higher levels.

We also follow a **transparent and time bound mechanism for grievance redressal**, aligning with guidelines of statutory/regulatory bodies/agencies.

Governance, Leadership and Management

Under the governance of **Adi Sankara Trust**, and gracious blessings of **Sringeri Mutt**, ASIET emphasizes on **decentralization and participative management** through the following councils who look after the progress and development of the institution with clearly defined Vision, Mission and Objectives.

- **Governing Body**
- **Management Council**
- **College Council**
- **Internal Quality Assurance Cell**
- **Academic Council**

This fosters a **distributed governance system** with enhanced efficiency and **accountability**. Administrative responsibilities at ASIET are **decentralized, with department heads and functional committees** which are entrusted with specific roles.

In addition, the **representatives of staff and student** act as members of appropriate cells like:

- **Anti-Ragging Committee**
- **Grievance Redressal Cell**
- **Industry-Institute Partnership Cell**
- **Institute Innovation Cell**
- **Women Empowerment Cell**

ASIET upholds Indian culture and heritage through events like “**Thyagaraja Aradhana - a classical rendition of famous Pancharatna Kritis**” and “**Brahma – a showcase of classical music and dance forms**”. Furthermore,

ASIET's **Adi Shankara Digital Academy (ASDA) platform** offers online courses in **Vastu Shastra, Vedic Mathematics, and Yoga**. These courses cater to both internal and external participants, aiming to extend educational reach and provide opportunities for upskilling rooted in **traditional Indian knowledge**.

The institute follows a **4 stage Performance Appraisal System** for both teaching and non-teaching staff. **Welfare of teaching and non-teaching staff** is always a prime concern in addition to the avenues provided for **career development** through study leaves, its **IEDC, IIC IPR Cell** etc.

- **307 faculty members (41.57%)** benefited from the **financial support** system during the assessment years.
- **439 Faculty and 27 Nonteaching staff members (51.21%)** attended **developmental programs**

Institution promotes the **mobilization of resources** from various source through **collaborations** and projects with **proper auditing** on the utilization.

At ASIET, **IQAC** takes a lead role in **planning, reviewing and implementing strategies**. We always **encourage external as well as internal audits/feedbacks**, which serve as a self-diagnostic tool and provide valuable inputs in the path ahead. Approved **policies** are disseminated among the stakeholders and **practiced impartially without any discrimination**.

The approved **strategic plan** serves as the **decree** of the ultimate goals of the institution in the future.

Institutional Values and Best Practices

ASIET promises **equal opportunities** for all establishing an **ambience of gender equity** through **guest lectures, seminars, workshops, awareness campaigns**, etc. under the guidance of following **forums** with a **fair representation of Women**:

- **Gender Equity Cell**
- **Women Empowerment Cell**
- **Grievance Redressal Committees**
- **Anti Ragging Cell**
- **Internal Complaints Committee**

Policies fostering **Gender Equity, Grievance Redressal, Human Value & Professional Ethics** and **Anti Ragging** etc. ensure the inclusiveness of all, right from admission.

- **Safety and Security** is ensured with the **Surveillance Camera Networks, Security and Vehicle Pass System**.
- Advanced **firewall** system to enhance protection against cyber threats and unauthorized access, ensures the **safety of data and information**.
- **Counselling and Mentoring services** clubbed with the **ICC, Anti-Ragging and Discipline Committees**. **Prompt & timely interventions** safeguard the well-being and rights of stakeholders.
- Affordable **transportation facilities** and **separate hostel facilities** also add to the efforts.
- **Brahma** - our **iconic annual techno cultural fest** is well participated by **students from various states**.
- Thus students are **sensitized to cultural, regional, linguistic, communal, and socio-economic diversities**, fostering a spirit of understanding and cooperation in community.

- Every year, the **Arts festival, Onam, Christmas, and Navratri festivals** are celebrated highlighting **moral and ethical values**, bringing students together promoting communal diversity.
- **Students admitted** to various programs from **all over the country**; ensures the regional and ethnic diversity.
- **College Magazine and Newsletters** promotes **linguistic diversity**

With **Solar Power Plant, Proper Waste Management, other Green initiatives and Audits** we aim at a **Sustainable Development**. We try to maintain the natural habitat by **preserving trees during the constructions and infrastructure developments**.

ASIET was in the fore front of the **relief activities** during **Floods in 2018 and Covid Pandemic**.

We strive hard to **Excel in Innovation, Incubation, and Entrepreneurship** and **Foster Professional Growth and Student Excellence** through the activities of our cells and Professional Society Chapters.

Moulding Professionals with Social Commitment by Empowering Communities and Protecting the Environment is targeted through the **Extension and Outreach activities** of the institute mainly under the leadership of **NSS units**; paving our way to excellence.

2. PROFILE

2.1 BASIC INFORMATION

| Name and Address of the College | |
|---------------------------------|--|
| Name | ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY |
| Address | Vidya Bharathi Nagar, Mattoor Road, Kalady, Ernakulam |
| City | ERNAKULAM |
| State | Kerala |
| Pin | 683574 |
| Website | www.adishankara.ac.in |

| Contacts for Communication | | | | | |
|----------------------------|-----------------|-------------------------|------------|-----|----------------------------|
| Designation | Name | Telephone with STD Code | Mobile | Fax | Email |
| Principal | M S Murali | 0484-2463825 | 9871561711 | - | info@adishankara.ac.in |
| IQAC / CIQA coordinator | Bobby Mathews C | 0484-2466066 | 9446472170 | - | bobby.ec@adishankara.ac.in |

| Status of the Institution | |
|---------------------------|----------------|
| Institution Status | Self Financing |

| Type of Institution | |
|---------------------|--------------|
| By Gender | Co-education |
| By Shift | Regular |

| Recognized Minority institution | |
|--|----|
| If it is a recognized minority institution | No |

| Establishment Details | |
|-----------------------|--|
| | |

| State | University name | Document |
|--------|---|-------------------------------|
| Kerala | A.P.J. Abdul Kalam Technological University | View Document |

| Details of UGC recognition | | |
|----------------------------|------|---------------|
| Under Section | Date | View Document |
| 2f of UGC | | |
| 12B of UGC | | |

| Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC) | | | | |
|---|---|--------------------------------|--------------------|---------|
| Statutory Regulatory Authority | Recognition/Approval details Institution/Department programme | Day,Month and year(dd-mm-yyyy) | Validity in months | Remarks |
| AICTE | View Document | 21-06-2023 | 12 | |

| Recognitions | |
|---|----|
| Is the College recognized by UGC as a College with Potential for Excellence(CPE)? | No |
| Is the College recognized for its performance by any other governmental agency? | No |

| Location and Area of Campus | | | | |
|-----------------------------|---|-----------|----------------------|--------------------------|
| Campus Type | Address | Location* | Campus Area in Acres | Built up Area in sq.mts. |
| Main campus area | Vidya Bharathi Nagar, Mattoor Road, Kalady, Ernakulam | Rural | 10 | 69784 |

2.2 ACADEMIC INFORMATION

| Details of Programmes Offered by the College (Give Data for Current Academic year) | | | | | | |
|---|--|---------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|
| Programme Level | Name of Programme/Course | Duration in Months | Entry Qualification | Medium of Instruction | Sanctioned Strength | No.of Students Admitted |
| UG | BTech,Electronics And Communication Engineering, Electronics and Communication Engineering | 48 | XII Std | English | 100 | 84 |
| UG | BTech,Electrical And Electronics Engineering,Electrical and Electronics Engineering | 48 | XII Std | English | 63 | 45 |
| UG | BTech,Computer Science And Engineering,Computer Science and Engineering | 48 | XII Std | English | 198 | 194 |
| UG | BTech,Mechanical Engineering,Mechanical Engineering | 48 | XII Std | English | 63 | 31 |
| UG | BTech,Civil Engineering,Civil Engineering | 48 | XII Std | English | 63 | 25 |
| UG | BTech,Robotics And Automation,Robotics and Automation Engineering | 48 | XII Std | English | 66 | 46 |
| UG | BTech,Electr | 48 | XII Std | English | 63 | 56 |

| | | | | | | |
|----|---|----|---------|---------|----|----|
| | onics And Biomedical Engineering, Electronics and Biomedical Engineering | | | | | |
| UG | BTech, Artificial Intelligence And Data Science, Computer Science and Engineering Artificial Intelligence | 48 | XII Std | English | 66 | 64 |
| UG | BTech, Artificial Intelligence And Data Science, Computer Science and Engineering Data Science | 48 | XII Std | English | 32 | 28 |
| PG | Mtech, Electronics And Communication Engineering, VLSI and Embedded Systems | 24 | B Tech | English | 18 | 0 |
| PG | Mtech, Electronics And Communication Engineering, Communication Engineering | 24 | B Tech | English | 18 | 0 |
| PG | Mtech, Electrical And Electronics Engineering, Power Electronics | 24 | B Tech | English | 18 | 2 |

| | | | | | | |
|-----------------|---|----|--------|---------|-----|----|
| | and Power Systems | | | | | |
| PG | Mtech,Computer Science And Engineering,Computer Science and Engineering | 24 | B Tech | English | 18 | 2 |
| PG | MBA,Adi Shankara Business School,Business Administration | 24 | UG | English | 120 | 85 |
| PG | MCA,Computer Application,Computer Application | 24 | UG | English | 60 | 24 |
| Doctoral (Ph.D) | PhD or DPhil ,Electronics And Communication Engineering, | 60 | PG | English | 16 | 8 |
| Doctoral (Ph.D) | PhD or DPhil ,Electrical And Electronics Engineering, | 60 | PG | English | 12 | 0 |
| Doctoral (Ph.D) | PhD or DPhil ,Computer Science And Engineering, | 60 | PG | English | 8 | 1 |
| Doctoral (Ph.D) | PhD or DPhil ,Mechanical Engineering, | 60 | PG | English | 6 | 0 |
| Doctoral (Ph.D) | PhD or DPhil ,Electronics And Biomedical Engineering, | 60 | PG | English | 4 | 0 |

Position Details of Faculty & Staff in the College

| Teaching Faculty | | | | | | | | | | | | |
|---|-----------|--------|--------|-------|---------------------|--------|--------|-------|---------------------|--------|--------|-------|
| | Professor | | | | Associate Professor | | | | Assistant Professor | | | |
| | Male | Female | Others | Total | Male | Female | Others | Total | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | 0 | | | | 0 | | | | 0 | | | |
| Recruited | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yet to Recruit | 0 | | | | 0 | | | | 0 | | | |
| Sanctioned by the Management/Society or Other Authorized Bodies | 6 | | | | 25 | | | | 104 | | | |
| Recruited | 6 | 0 | 0 | 6 | 15 | 10 | 0 | 25 | 32 | 72 | 0 | 104 |
| Yet to Recruit | 0 | | | | 0 | | | | 0 | | | |

| Non-Teaching Staff | | | | |
|---|------|--------|--------|-------|
| | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 0 |
| Recruited | 0 | 0 | 0 | 0 |
| Yet to Recruit | | | | 0 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 61 |
| Recruited | 39 | 22 | 0 | 61 |
| Yet to Recruit | | | | 0 |

| Technical Staff | | | | |
|---|-------------|---------------|---------------|--------------|
| | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 0 |
| Recruited | 0 | 0 | 0 | 0 |
| Yet to Recruit | | | | 0 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 35 |
| Recruited | 14 | 21 | 0 | 35 |
| Yet to Recruit | | | | 0 |

Qualification Details of the Teaching Staff

| Permanent Teachers | | | | | | | | | | |
|------------------------------|------------------|---------------|---------------|----------------------------|---------------|---------------|----------------------------|---------------|---------------|--------------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | |
| D.sc/D.Litt/LLD/DM/MCH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 6 | 0 | 0 | 12 | 6 | 0 | 2 | 1 | 0 | 27 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 76 | 0 | 108 |
| UG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Temporary Teachers | | | | | | | | | | |
|------------------------------|------------------|--------|--------|----------------------------|--------|--------|----------------------------|--------|--------|--------------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | |
| D.sc/D.Litt/LLD/DM/MCH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Part Time Teachers | | | | | | | | | | |
|------------------------------|------------------|--------|--------|----------------------------|--------|--------|----------------------------|--------|--------|--------------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | |
| D.sc/D.Litt/LLD/DM/MCH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Details of Visting/Guest Faculties | | | | | |
|---|-------------|--|---------------|--|--------------|
| Number of Visiting/Guest Faculty engaged with the college? | Male | | Female | | Total |
| | | | | | |
| | 2 | | 0 | | 2 |

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

| Programme | | From the State Where College is Located | From Other States of India | NRI Students | Foreign Students | Total |
|-----------------|--------|---|-------------------------------|--------------|---------------------|-------|
| UG | Male | 235 | 1 | 44 | 0 | 280 |
| | Female | 201 | 0 | 37 | 0 | 238 |
| | Others | 0 | 0 | 0 | 0 | 0 |
| PG | Male | 24 | 0 | 0 | 0 | 24 |
| | Female | 45 | 0 | 0 | 0 | 45 |
| | Others | 0 | 0 | 0 | 0 | 0 |
| Doctoral (Ph.D) | Male | 0 | 0 | 0 | 0 | 0 |
| | Female | 1 | 0 | 0 | 0 | 1 |
| | Others | 0 | 0 | 0 | 0 | 0 |

| Provide the Following Details of Students admitted to the College During the last four Academic Years | | | | | |
|--|--------|---------------|---------------|---------------|---------------|
| Category | | Year 1 | Year 2 | Year 3 | Year 4 |
| SC | Male | 5 | 1 | 3 | 1 |
| | Female | 4 | 1 | 7 | 4 |
| | Others | 0 | 0 | 0 | 0 |
| ST | Male | 0 | 0 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 |
| | Others | 0 | 0 | 0 | 0 |
| OBC | Male | 31 | 17 | 32 | 19 |
| | Female | 48 | 13 | 38 | 33 |
| | Others | 0 | 0 | 0 | 0 |
| General | Male | 230 | 240 | 239 | 210 |
| | Female | 269 | 283 | 261 | 221 |
| | Others | 0 | 0 | 0 | 0 |
| Others | Male | 0 | 0 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 |
| | Others | 0 | 0 | 0 | 0 |
| Total | | 587 | 555 | 580 | 488 |

Institutional preparedness for NEP

| | |
|--|--|
| <p>1. Multidisciplinary/interdisciplinary:</p> | <p>Our Institution has the vision of setting a benchmark for providing quality technical education in the field of Engineering and Technology. Through the collaborative approach of teaching-learning, Innovation, and Research the Institute transforms itself into a holistic multidisciplinary institution. The Institution is keen on promoting a multidisciplinary approach among the students' community thereby facilitating the young minds to solve day-to-day societal problems through NSS and other student chapters. STEM (Science Technology Engineering and Mathematics) has been actively inculcated in a lot of student activities for integrating humanities and Science with STEM. It develops a multidisciplinary</p> |
|--|--|

| | |
|------------------------------------|--|
| | <p>approach among students by applying the concepts of Science, Engineering, and Mathematics. We conduct the Young Scientist Award and APJ Abdul Kalam Innovation Challenge to enable STEM concepts among students. Mathematics Club organizes various competitions, seminars/talks, and exhibitions in this regard. We regularly organize project exhibitions to inculcate the STEM approach in the Teaching learning process. Being an affiliated Institution, we follow the curriculum and syllabi offered by APJ Abdul Kalam Technological University, Kerala. The University offers non-credit mandatory courses that emphasize safety, health, environment, sustainable engineering, the constitution of India, life skills, and Disaster Management towards the attainment of holistic and multidisciplinary education. The Institution is planning to offer a multidisciplinary flexible curriculum that enables multiple entries and exits at the end of 1st, the 2nd, and 3rd years of undergraduate education, once it becomes autonomous. The Institution has taken the necessary steps to become an autonomous Institution shortly. The Institution has different research labs like the Center for Antenna Design, Bioinformatics Research Lab, Data Analytics Research Lab, Multimedia Research Lab, IOT Innovation Lab, Advanced Resource Center for Information Security and Embedded Systems Lab (ARISE Lab), Advanced Communication Lab, Computational Research facility, Renewable energy Lab, Cyber forensic Research lab and many more to meet today's challenge and provide solutions in multidisciplinary research areas. We conduct project exhibitions and Hackathons to encourage multidisciplinary research aptitude among students.</p> |
| 2. Academic bank of credits (ABC): | <p>Kerala Technological University is undergoing the transition process of implementing the NEP, and there is readiness and institutional preparedness from ASIET to welcome the ABC system. Our students have created Digi Locker accounts, which will allow them to seamlessly integrate with the ABC platform in the future. Through our associations with SWAYAM and NPTEL, students can enroll in credit-awarding courses that align with their academic programs. Faculty members are also encouraged to register for these courses, which are considered equivalent to Faculty Development Programs (FDPs).</p> |

| | |
|--|---|
| | <p>Students can earn credits through NPTEL courses towards their minor and honor degrees, providing them with multidisciplinary exposure. Our institution maintains an active NPTEL local chapter to monitor and support these initiatives. We actively encourage our faculty members to participate in the preparation of syllabi, course materials, textbooks, and educational videos. Additionally, we promote digital and online learning across multidisciplinary domains through the Adi Shankara Digital Academy (ASDA), inaugurated by the Honorable Vice President of India, Sri Venkaiah Naidu. ASDA offers technical courses as well as courses on Yoga, Vastu Shastra, Natyashastra, Kayaking, and more.</p> |
| 3. Skill development: | <p>We have established over 20 active MOUs with industries and organizations to provide skill-based training, internships, seminars, expert talks, field visits, and project opportunities for both students and faculty. Various skill development courses are integrated into our curriculum, leveraging the framework provided by the Institution Innovation Council (IIC) and the Innovation and Entrepreneurship Development Cell (IEDC). These initiatives ignite entrepreneurial zeal among students by offering comprehensive training on various aspects of entrepreneurship. Our participation and consistent high rankings in IIC and ARIIA underscore our commitment to fostering innovation and entrepreneurship within our institution.</p> |
| 4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course): | <p>As an affiliated institution, we offer non-credit mandatory courses that focus on Professional Ethics, the Constitution of India, Life Skills, and Sustainable Engineering. We emphasize a bilingual mode of instruction, particularly during tutorial sessions, lab sessions, and remedial classes, to enhance comprehension and accessibility for all students. The ASIET library proudly houses a collection of books on the teachings of Adi Shankaracharya and Sanskrit literature under the Shankara Sara Sangraha (Shankara Corner). Our institution regularly organizes Thyagaraja Aradhana (recitation of Pancharatna Kritis) and dedicates a day to performing classical art forms, promoting Indian culture and traditions during our annual national techno cultural event Brahma. National and regional festivals, along with days of significance, are celebrated on campus to foster cultural awareness and unity. During the</p> |

| | |
|--|--|
| | celebration of Azaadi Ka Amrit Mahotsav, we have conducted a series of talks on Viksit Bharat, highlighting our commitment to the nation's progress and development. |
| 5. Focus on Outcome based education (OBE): | Our institution has been rigorously implementing Outcome-Based Education (OBE) in teaching, learning, evaluation, and continuous improvement. Our B.Tech programs in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Civil Engineering are proudly accredited by the National Board of Accreditation (NBA). As an affiliated institution, ASIET is committed to adhere to the curriculum and Programme Outcomes established by Kerala Technological University. Several of our faculty members actively contribute to the university's Board of Studies, playing key roles in designing curricula for their respective programs. The Internal Quality Assurance Cell (IQAC) is dedicated to facilitating the seamless integration and execution of OBE within the institute. The Department Advisory Board (DAB) and Program Assessment Committee (PAC) meticulously review the entire process, providing periodic recommendations for enhancement. We place significant emphasis on equipping our faculty with the necessary support to familiarize students with the intricacies of OBE, ensuring a comprehensive and effective educational experience. |
| 6. Distance education/online education: | Our institute is registered as a SWAYAM and NPTEL local chapter, providing opportunities for students to earn extra credit specializations. Additionally, we have implemented virtual labs for many of our laboratory courses through our partnership with the Virtual Lab at NIT Surathkal. We incorporate various innovative teaching methodologies, such as experiential learning, flipped classrooms, and blended learning, to effectively deliver our curriculum. These approaches ensure a more engaging and comprehensive educational experience for our students. |

Institutional Initiatives for Electoral Literacy

| | |
|---|---|
| <p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p> | <p>Yes, the Electoral Literacy Club (ELC) was established at Adi Shankara Institute of Engineering and Technology in 2023. It plays a vital role in educating students about their electoral rights and responsibilities, as well as promoting the values and principles of parliamentary democracy. This education is essential for fostering an engaged, informed, and active citizenry.</p> |
| <p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p> | <p>Yes, the faculty coordinators and student coordinators are appointed by the college. Prof. Kiran K S, Assistant Professor in the Mechanical Engineering Department, and Prof. Ashna Mohan, Assistant Professor in the Electrical and Electronic Engineering Department, serve as the faculty coordinators. Electoral Literacy Clubs (ELCs) at Adi Shankara accurately reflect the diversity and composition of the student body they serve. It includes members from various backgrounds, perspectives, and demographics, ensuring that the club's activities and initiatives are inclusive and representative of the entire student population. The students take the lead in organizing and conducting various activities. The club provides a platform for students, including those from NSS and HSG Cadets, to take on leadership roles, plan events, and engage their peers in understanding their electoral rights and responsibilities, thereby promoting the values of parliamentary democracy.</p> |
| <p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p> | <p>The Electoral Literacy Club (ELC) at Adi Shankara Institute of Engineering and Technology (ASIET) has undertaken several innovative programs to enhance electoral participation and awareness, demonstrating a commitment to promoting democratic values and inclusive voter participation. The ELC of ASIET, in collaboration with the District Administration Ernakulam, NSS, and Hindustan Scout and Guide, organized a comprehensive "Voters Awareness Program" aimed at enlightening students about the significance of active participation in the electoral process. This included live training sessions on the Voting Machine and VVPAT Machine, as well as conducting mock elections and SVEEP Ambassador selections. Additionally, the club organized a one-day campaign program titled "Mere Pahlavote, Desh Ke Liye". The primary objectives of the campaign were to promote electoral literacy among first year and</p> |

| | |
|---|---|
| | <p>second-year students, facilitate the pledge-taking ceremony for voting, and raise awareness about the pivotal role of voters in a democratic nation. The club actively collaborates with the district administration for various voter awareness interaction programs with the public and participates in quizzes, debates, and other activities. These initiatives underscore the club's proactive and inclusive approach to fostering a strong culture of democratic participation.</p> |
| <p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p> | <p>In collaboration with the NSS unit of ASIET, we conduct awareness drives to help students and public to understand their electoral rights and responsibilities, thereby promoting the values of parliamentary democracy. These drives include workshops, seminars, and interactive sessions with electoral experts. Additionally, in collaboration with the District Administration of Ernakulam, our volunteers participated in various election campaign activities. The college actively creates and disseminates educational content on electoral processes, voter rights, and democratic values. This includes brochures, and social media campaigns designed to reach a broad audience. The institute collaborates with local government bodies, NGOs, and other institutions to promote electoral literacy and participation. These collaborations often result in joint initiatives and programs that have a wider reach and impact. The college hosts workshops and training sessions on the use of voting machines and VVPAT machines, ensuring that students and the community are familiar with the voting technology and processes. Through these initiatives, ASIET actively contributes to the advancement of democratic values and increased participation in electoral processes, reinforcing its role as a socially responsible institution.</p> |
| <p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p> | <p>Over 95% of students at ASIET aged 18 and above are registered on the voter list. Thanks to the proactive efforts of the ELC club, this led to a 100% voter turnout among eligible voters in the nearby Lok Sabha election of 2024.</p> |

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---|---------|-------------------------------|---------|---------|
| 2092 | 2029 | 1976 | 1949 | 2010 |
| File Description | | Document | | |
| Upload Supporting Document | | View Document | | |
| Institutional data in prescribed format | | View Document | | |

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 127

| File Description | Document |
|---|-------------------------------|
| Upload Supporting Document | View Document |
| Institutional data in prescribed format | View Document |

2.2

Number of teaching staff / full time teachers year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 127 | 139 | 145 | 147 | 166 |

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 705.31 | 512.56 | 300.32 | 522.04 | 483.83 |

| File Description | Document |
|----------------------------|-------------------------------|
| Upload Supporting Document | View Document |

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Adi Shankara Institute of Engineering and Technology, affiliated to APJ Abdul Kalam Technological University, **strictly adheres to the University curriculum, syllabi and academic calendar.**

The Institute follows **Outcome Based Education (OBE)**, with assessment parameters: **Program Outcomes (POs), Program Specific Outcomes(PSOs) and Program Educational Objectives (PEOs).**

Internal Quality Assurance Cell (IQAC) ensures curriculum planning, delivery, assessments, and quality improvement and sustenance of academic and administrative activities of the Institution with the support of the **Department Advisory Board (DAB) and Programme Assessment Committee (PAC).**

Curriculum Planning

- **Institute Academic Calendar**, incorporating **curricular, co-curricular, and extracurricular activities**, aligned with **University's Academic Calendar**, is **prepared by IQAC** and is approved by the **Academic Council**. Subsequently, Department calendars are prepared and disseminated.
- **The Master Timetable** is prepared by the **Timetable Committee** and gets the approval of the Academic Council.
- The courses are divided into **Streams headed by Stream Coordinator**.
- Following the **course allocation** by the HOD, based on subject expertise/preference of faculty, **Course Delivery Manual (CDM)** prepared by course instructor (CI) is verified by Stream Coordinator and approved by Academic Head/Dept., IQAC coordinator and HOD.
- **Course Outcomes (CO)** for the courses are defined by CIs in line with the syllabus and curriculum and mapped to POs and PSOs on a '3-point scale'.
- **Value-added/certificate courses and training programs on content beyond syllabus** are planned, offered and mapped into CO/PO.
- **Faculty members** are actively involved in the **curricular design of the university** as members of various **Boards of Studies** of the university.

Implementation

- Conventional teaching methodologies and **ICT-enabled instructional approaches** like **Google Classroom, LMS platforms, SWAYAM/NPTEL/MOOC courses, and virtual labs**, ensure effective curriculum delivery.
- **Pedagogical approaches** like **group discussions, tutorial sessions, seminars, industry**

projects, internships, and bridge courses are integrated into the curriculum.

- Participation in inter-intra-institute activities like **expert lectures, workshops, paper presentations, technical fests, and internships** are encouraged among the students.
- CI maintains the **subject file with academic timetable, CDM, course materials, previous question papers, samples of learning activities, and internal assessment sheets**
- The course content, delivery and assessment are **documented in the LMS Platform**.
- **Slow learners** receive support through remedial classes, peer group learning, university exam preparatory classes, and notes.
- **Audits by HOD, IQAC, and University** in addition to **Class/Course Committees, Advisory Meetings, and Surveys** monitor the effectiveness of the teaching-learning process.

Continuous Internal Assessment

- The **Academic Calendar** outlines the **schedule for the Internal Assessment Tests**.
- The **Internal Exam Cell** ensures the proper conduct and quality of internal tests.
- The stream coordinator and HOD **review and approve** two sets of question papers prepared in the pattern of university question papers by the CI, following **Bloom's Taxonomy**. The final set is selected by HOD.
- Student progress reports are accessible through the **LMS platform** used.
- The **Internal Exam Grievance Redressal Cell** ensures that the examination related grievances are resolved promptly.
- **Assignments, Tutorials, Course Projects, daily performance evaluation and other Learning Activities** along with **Attendance and Internal Assessment Tests** contribute to continuous internal assessment as per the guidelines of the university.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 178

| File Description | Document |
|---|-------------------------------|
| List of students and the attendance sheet for the above mentioned programs | View Document |
| Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes | View Document |
| Institutional data in the prescribed format | View Document |
| Evidence of course completion, like course completion certificate etc. Apart from the above: | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 59.3

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 1392 | 1151 | 1013 | 1343 | 1064 |

| File Description | Document |
|---|-------------------------------|
| Upload supporting document | View Document |
| Institutional data in the prescribed format | View Document |

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Being a KTU affiliated institution, programmes adhere to a set of curriculum that integrates **crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability** to enhance the learning environment. ASIET promotes activities based on these aspects in addition to the professional growth of students.

Professional Ethics

- Courses like **Constitution of India, Life Skill & Professional Ethics** empowers students in fundamental rights, skills and values needed in professional careers.
- All staffs and students follow **Institutional Values and Ethical practices**.
- **IPR cell** promotes **professional ethics, encourages respect for original work and fosters a culture of innovation and research integrity**.
- Plagiarism checks while publication and dissertation ensures academic integrity among the faculties and students.
- College organizes **seminars and workshops in Cyber Security, Ethical Hacking, Intellectual property rights** promoting ethical conduct.

Gender Equality

- In ASIET, all faculty and students are ensured equal access to resources and equal opportunities for participation in events.
- Committees like **Grievance Redressal Committee, Internal Complaint Committee, Discipline Committee and Anti-ragging Cell** ensure a safe, secure working environment for all.
- **Fair representation** of both genders in college council, union, course/class committees, placement drives etc., is ensured.
- IEEE affinity group - **IEEE WIE**, inspires women engineers to follow their academic interests in engineering and science.
- The **Women Empowerment Cell** at ASIET organizes programs to educate women about opportunities, health and legal aspects.
- The **Gender and Equity Cell** fosters **gender equality** by advocating for **equal rights, opportunities**, and awareness within the institution and broader community.
- Separate hostel facilities are provided for male and female students.

Human Value

- **Blood donation camps, visiting old age homes, narcotic awareness classes, cleaning drives** organized enhance **social responsibility** in students.
- **Universal Human Values Cell** organizes programmes instilling **Values and Ethics** among the students and faculty.
- **Hindustan Scout and Guide (HSG) unit** strives to develop the **inherent potential** of the students through **community service activities**.
- Students are supported and motivated to **undertake project works** focusing human values and prepare them to be **responsible for society**.
- ASIET's initiatives like "**VIDHYOUTH**" - **Electrification of impoverished households** in the nearby communities, "**Home for Homeless**", **Volunteering in relief and rehabilitation activities during flood and covid pandemic**, has helped in **instilling human values** among its stakeholders.

- Observing national days of importance fosters the **values of citizenship, patriotism, service, and brotherhood**

Environment and Sustainability

- **Courses like Introduction to Sustainable Engineering, Disaster Management and Environment Health and Safety** make students aware of the factors affecting the society and ecosystem.
- **Awareness sessions, seminars, field visit, nature camps, cleanliness drives** etc., of “**Boomithrasena**” instill interest in **nature-conservation**.
- Institution also performs **energy audits and green audits**.
- Institute promotes student ideas that turn scientific discoveries into practical applications to bring **sustainable benefits to society**.
- Activities like ‘**Tree plantation**’ and ‘**Clean India - Swach Bharat Campaign**’ sensitize the students on **environment and sustainability**
- Institution promotes sustainable practices like **rainwater harvesting, green campus, waste management and installation of a solar power plant** to enhance **commitment on preservation of nature; reducing the carbon footprint**.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 65.06

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 1361

| File Description | Document |
|---|-------------------------------|
| Upload supporting document | View Document |
| Institutional data in the prescribed format | View Document |

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from

various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

| File Description | Document |
|---|-------------------------------|
| Feedback analysis report submitted to appropriate bodies | View Document |
| At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc. | View Document |
| Action taken report on the feedback analysis | View Document |
| Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 71.27

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 587 | 555 | 580 | 488 | 561 |

2.1.1.2 Number of sanctioned seats year wise during last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 852 | 792 | 792 | 696 | 756 |

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 31.56

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

| | | | | |
|---------|---------|---------|---------|---------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 88 | 32 | 80 | 57 | 52 |

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

| | | | | |
|---------|---------|---------|---------|---------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 209 | 197 | 197 | 182 | 194 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in the prescribed format | View Document |
| Final admission list indicating the category as published by the HEI and endorsed by the competent authority. | View Document |
| Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable) | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 16.47

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

ASIET prioritizes **student-centric approaches**, enhancing the learning experience through **hybrid learning**, integrating **ICT-enabled education** with **conventional classroom techniques**, aligning with the **National Education Policy**. Faculty members adopt **cutting-edge pedagogical tools, methods and platforms** providing high-quality education.

Experiential Learning

- The knowledge and skills acquired in the classroom are applied during the courses like **Main projects, Mini projects, and Course projects**.
- **Project based learning** through Main, Mini and Course projects focus on societal issues, innovation and upskilling in line with **Prime Minister's "Skill India" vision**.
- **Industry supported/Research laboratories** provide hands-on experience in technical and research fields for students.
- **Internships** with different organizations improve students' preparedness for industry, exposure and comprehensive development.
- **School outreach programmes** are arranged as content beyond learning.
- **Value added courses** are being organized by student chapters and associations.
- **Laboratory courses** are made mandatory to enhance the students' skills and boost their confidence.
- Students are encouraged to participate actively in **funded projects, publish** their work in reputed journals, and apply for **patents**.
- **Creative undertaking beyond the scope of academic coursework** such as "Punarjani", "Amrit Sarovar - Jal Dharohar Samrakshan", Road Surveys, "Rebuild Kerala" initiatives, "River Rejuvenation", "Vidyudth", "Jyothirgamaya", Market Surveys, socially relevant innovative projects, Energy audit, Water quality Testing, GPS installation in school buses, Equipment repairing & Wiring at different organizations, mechanical waste utilization etc. are carried out.

Participative Learning

- **IEEE, CSI, IEDC, IIC, GDSC, Hack Club, FOSS cell, Tinkerhub, and Dept. Associations** of our institute organized seminars, **workshops, Interactive sessions** through which students developed their technical and entrepreneurial knowledge.
- **Exhibitions and contests** organized by our students as part of annual Technical Festival
- **Integrated Teaching and Learning includes Simulation assignments, MOOC courses, Seminars and Group Discussions** to encourage students to develop their critical thinking, problem-solving, and communication skills.
- **Field visits & Industrial Visits** help to experience real-world applications of the concepts they are learned in the classroom.
- **Expert Talk** by eminent industry experts are arranged to facilitate students to acquire real time knowledge in recent technologies.
- Students are motivated to participate in **National Innovation Contest, Smart India Hackathon, Professional Society Events, Project Expos, Gamathone, Value Added Courses, etc.** where students can explore their ideas and innovation towards awards and achievements.

Problem Solving Methodologies

- **Main projects, Mini projects, and Course projects**, prescribed in the curriculum ensures student involvement in innovative solutions to real-world problems.
- **Hackathons, Coding & Design contests** are arranged to test their coding skills and work on interesting real world challenges.
- **Project work in collaboration with industry** helps to acquire practical knowledge through interaction with industrialists/scientists.
- Students are motivated to publish their works in the **Journals/Conferences**.
- Students are encouraged to learn **Root Cause Analysis (RCS)** by active involvement in socially oriented projects in various engineering domains. The projects include **Water Body Conservation, Hybrid Energy Generation for Renewable Systems, Medical Robotics, Tidal Wave Variation Calendar and Landslide Prediction Systems** among others.
- The students were actively involved in Covid-19 projects during the pandemic.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 114.02

2.4.1.1 Number of sanctioned posts year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 127 | 127 | 127 | 127 | 127 |

| File Description | Document |
|---|-------------------------------|
| Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts) | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 22.93

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

| | | | | |
|---------|---------|---------|---------|---------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 37 | 38 | 34 | 30 | 27 |

| File Description | Document |
|---|-------------------------------|
| List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year. | View Document |
| Institution data in the prescribed format | View Document |
| Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The mechanism of **internal and external assessment** at our institution is characterized by its **transparency and efficiency**, ensuring fair academic evaluations **in line with University regulations**. Additionally, our **grievance redressal system is both time-bound and efficient**, providing students with a reliable channel to address any assessment-related concerns or disputes.

Internal Assessment Mechanism

- The institution follows the university's **continuous internal evaluation (CIE)** system, for all courses.
- Internal evaluation comprises **internal assessment (IA) tests, assignments, module tests, and attendance** for Theory subjects, and **daily performance** in the lab, timely submission of **rough**

and fair reports, viva sessions, and internal exams for practical subjects. Students are informed of these evaluation criteria in advance during induction and class hours.

- The institution's IQAC prepares the semester institute calendar, incorporating internal evaluation dates and aligning with the university calendar.
- The Internal assessment schedule is posted on **notice boards** and shared via WhatsApp groups in advance.
- In **compliance with Bloom's Taxonomy**, the **instructor** prepares two sets of **question papers** and evaluation schemes.
- The **exam cell**, in consultation with the **academic head and HOD**, selects the **final question paper**.
- On test day, the exam cell distributes question papers through invigilators with the **Principal's consent**.
- Faculty members **communicate the evaluation scheme to students before publishing the results**.
- HODs ensure time bound valuation of **internal exam answer sheets**.
- Students can personally **review their assessed answer scripts, promoting transparency and clarity**.
- After resolving **student grievances** IA marks gets finalized .
- The IA marks are disseminated to parents and students through **our ERP Platform**, and conducts periodic **PTA** meetings for student performance reviews.
- Regular **internal audits and external audits by the University** ensure the transparency of the assessment process.

External Assessment Mechanism

- KTU conducts **semester-wise assessments** where students can register for exams through the university portal when notified.
- University-appointed **invigilators and observers** will monitor the exams.
- Answer scripts are evaluated at **various camps**, and evaluators submit marks in the **KTU portal**.
- Final results are **published on the portal** and can be accessed through the login.

Efficient Grievance Redressal System

A.College Level:

- Students dissatisfied with their assessment can request **re-evaluation** from the instructor. If unresolved, they can escalate to the HOD for further review.
- A student can request a **retest** getting approval from the Faculty Advisor and HoD for **genuine reasons**.
- **Physically challenged** students can request exam venue changes through their exam cell coordinator.
- Grievances that are still unsettled can be brought to the notice of **Internal Exam Grievance Redressal Cell**.
- Internal **grievances are resolved** within a time bound of two days.

B.University Level

- **Student Grievances Portal** meets **AICTE** requirements, offering online resolutions with

tracking.

- Malpractices are reported to the observer and university on the same day.
- If the examination has **out-of-syllabus** questions, representation can be given by students to the University.
- Faculty can **suggest evaluation scheme modifications** through email.
- Dissatisfied students can **apply for revaluation or request a scanned answer sheet for scrutiny**.
- The university aims to provide **timely solutions** to resolve issues, typically within one to two months.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

ASIET follows **Outcome-Based Education (OBE)** by defining and assessing **learning outcomes**, thereby ensuring a structured and effective learning experience for our students. The integration of POs, PSOs, and COs extends beyond course preparation, material delivery, and assessment to encompass the broader institutional culture, benefiting all stakeholders.

Formulation of Program Outcomes (PO) & Program Specific Outcomes (PSO)

- Our institution adheres to the **twelve Program Outcomes (PO)** outlined by the **National Board of Accreditation (NBA)** and formulates two to four discipline-specific **Program Specific Outcomes (PSOs)** for undergraduate programs.
- For **postgraduate engineering programs**, we implement the three general Program Outcomes established by the NBA.
- Furthermore, our **MBA and MCA** programs are aligned with the twelve Program Objectives defined by NBA for MBA program.

Formulation of Course Outcomes (CO)

The **university specifies the Course Outcomes (COs)** provided in the syllabus, serving as a reference for course instructors to define COs. **Course Outcomes (COs) framed by course instructors** using revised **Bloom's Taxonomy action verbs** are incorporated into the respective **Course Delivery Manuals (CDMs)** and reviewed by the Stream Coordinator, Academic Head, and Head of the

Department. Instructors are encouraged to raise, rather than lower, the taxonomy level provided by the university.

Dissemination of POs, PSOs and COs

ASIET has implemented measures to **effectively disseminate the COs, POs and PSOs among all stakeholders of the institution**. This initiative aims to ensure comprehensive understanding among stakeholders regarding student expectations, enable educators to tailor their instructional approaches accordingly, and provide stakeholders with insights into the proficiency levels achieved by graduates.

A. Dissemination of POs and PSOs

- POs and PSOs are displayed in the **institute website, main corridors, entrances** and the notice board in ASIET.
- POs & PSOs are displayed in common areas including **seminar halls, auditoriums, laboratories and classrooms**.
- **HoD and Faculty Advisor** explains POs & PSOs to the students in the **Orientation and Advisory Committee meetings**.
- **Course Instructors** explain COs and its mappings to various POs and PSOs in the class.

B. Dissemination of Course Outcomes:

- In the preliminary sessions of every course, **the course instructor** explains the COs of the course.
- COs are written in the **course diary** to remind the faculty member of the expected outcomes.
- COs are **entered in LMS** and is available for faculties to view
- COs are **clearly indicated for every question in Internal Examination Question Papers** of all courses.
- Internal examination evaluation sheets display COs along with marks scored for each question

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

At ASIET, effective approaches to **assess and monitor student performance**, as well as the **evaluation of the attainment of POs and COs**, are practiced as part of **Outcome-Based Education**. **Continuous improvement** is prioritized through corrective measures if the desired outcomes are not met.

Assessment Process

1. Curriculum planning: - The Course Instructor (CI) formulates **Course Outcomes (COs), CO-PO/PSO mapping, teaching-learning strategies, and assessment methods** to evaluate each COs based on university syllabus and **gaps identified from the analysis of CO and PO attainment in the previous academic year.** This planning process is then reviewed and approved by Stream Coordinator, IQAC Head, Academic Head, and Head of the Department.

2. Implementation and Evaluation: - The planned assessment methods are executed by the CI, and the marks obtained for each CO are meticulously tabulated, employing **Bloom's Taxonomy verbs.**

3. CO Assessment Process: -

- **Target Level (TL) and Attainment Level (AL):** To establish **TL and AL** for IAs, learning activities, and university results, subjects are categorized into three groups. The **Program Assessment Committee (PAC)** sets TL and AL based on previous attainment, university results, difficulty, and other factors. If the CO is attained, AL increases in the following year to promote **continuous improvement.** If not, AL remains the same, and assessment plans are modified. Once AL reaches a saturation point, PAC modifies TL while maintaining the baseline AL.
- **CO attainment calculation:** The attainment of each CO is obtained by combining 80% of direct attainment and 20% of indirect attainment.
- **Direct Attainment:** Direct Attainment of CO is calculated with a weightage of 60% from internal assessments and 40% from University Exams. For internal assessments and university exams, CO attainment value is calculated based on, percentage of students attaining the set target. For example:

- If minimum 70 % of students scored the set target, attainment =3
- If minimum 60 % of students scored the set target, attainment =2
- If minimum 50 % of students scored the set target, attainment =1
- Otherwise, attainment = 0

- **Indirect attainment:** The indirect attainment is calculated from Course Exit Survey, which includes questions that cover all CO attainment levels.

4. PO -PSO assessment Process

- Initially, the Target Level for POs and Program PSOs is set by the respective **PAC.**
- **Direct PO-PSO attainment** for all **curriculum courses and add on courses** are tabulated.
- **Indirect PO/PSO attainment** is calculated from the **Program Exit Survey/Employer Surveys or combination of similar surveys** conducted upon program completion
- The Final attainment of PO/PSO = **80% of Direct attainment + 20% of Indirect attainment**
- At the end of each academic year, the attained PO/PSO levels are compared with targets. The **PAC** meetings assess the program's progress, set new target levels, and initiate action plans for **continuous improvement** of attainment for future student batches.
- The identified gaps and initiated action plans are discussed in the **Department Advisory**

Committee meetings and revised based on their feedback.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 84.3

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 375 | 431 | 450 | 517 | 455 |

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 512 | 554 | 521 | 554 | 502 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in the prescribed format | View Document |
| Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise. | View Document |
| Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.79

| File Description | Document |
|--|-------------------------------|
| Upload database of all students on roll as per data template | View Document |

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 38.64

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|----------|---------|---------|
| 9.78728 | 2.09500 | 17.45500 | 5.90000 | 3.40000 |

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

The entrepreneurial drive and intellectual assets, centered on **innovation, intellectual property rights (IPR), and the Indian Knowledge System**, are showcased through numerous endeavors at various levels through vibrant cells and initiatives.

Centre for Innovation, Incubation and Entrepreneurship (CIIE), around 10000 sq.ft., consisting of **Fabrication Lab, Innovation and Entrepreneurship Development Centre (IEDC) and Technology Business Incubator (TBI)**, elevates entrepreneurial journeys. **Institution's Innovation Council (IIC)** fosters **research and innovation** culture among students and faculty. The **IPR Cell**, at ASIET plays a crucial role in fostering innovation and protecting the intellectual assets created within the institution.

- Over the past five years, more than **25 patents** have been published as a result of establishing an **IPR cell and registering in the Kapila Initiative** by the **Ministry of Innovation Cell**.

- **IEDC**, established in 2015, kindles **innovation and the entrepreneurial ecosystem** on campus. The Kerala Startup Mission selected ASIET's IEDC Bootcamp as the **best among the 216 IEDCs in the state in 2016, 2017, and 2018**. Additionally, ASIET received the **Entrepreneurship Enabler Award** in 2018.
- IEDC, with **Pre-incubation, Incubation and acceleration programs** offered to students and alumni, boasts a proven track enriched with **12 startups and more than 20 commercialized products**.
- In 2019, the **Kerala State Industrial Development Corporation (KSIDC)** sanctioned a **Business Incubation Centre**, which was subsequently recognized as an **MSME Business Incubation Centre by the Government of India** in 2021.
- The **Kerala Startup Mission** recognized ASIET's IEDC as a **Technology Business Incubator (TBI)**.
- In 2023, ASIET received the **LEAP** recognition from the Kerala Startup Mission.
- ASIET was recognized as a '**Band Performer**' in the **Atal Ranking of Institutions on Innovation Achievements (ARIIA) in 2021**.
- The **Institution's Innovation Council (IIC)** at ASIET received a **rating of 3.5** out of 5 stars for the IIC calendar year 2020-21.
- **ASIET FABLAB, a state-of-the-art initiative**, is designed to support faculty and students in converting innovative ideas into tangible products.
- Utilizing the research facilities, various **Consultancy Services** are offered to governmental and non-governmental organizations.

Promoting Indian Knowledge System (IKS)

- ASIET strives to integrate **IKS with modern engineering science** to provide students with a holistic educational journey rooted in values and traditional knowledge.
- To uphold **Indian culture and heritage**, ASIET involves faculty and students in a range of activities like "**Thyagaraja Aradhana**," featuring recitals of Pancharatna Kritis, performances showcasing **classical music and dance** forms of India, as integral parts of **annual National Techno-Cultural Festival "Brahma"**.
- The **ASDA (The Adi Shankara Digital Academy)** platform, launched by the **Honourable Vice President of India, Sri M Venkaiah Naidu**, in 2021, catering to all, offers online courses in **Vastu Shastra, Vedic Mathematics, and Yoga**. ASDA aims to utilize its learning platform to extend its reach to students and graduates, providing opportunities for upskilling and empowering them with **knowledge rooted in traditional Indian culture**.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 52**3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 12 | 9 | 10 | 7 | 14 |

| File Description | Document |
|---|-------------------------------|
| Upload supporting document | View Document |
| Institutional data in the prescribed format | View Document |

3.3 Research Publications and Awards**3.3.1****Number of research papers published per teacher in the Journals notified on UGC care list during the last five years****Response: 0.64****3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 5 | 23 | 32 | 15 | 6 |

| File Description | Document |
|---|-------------------------------|
| Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website | View Document |
| Link to re-directing to journal source-cite website in case of digital journals | View Document |
| Links to the papers published in journals listed in UGC CARE list or | View Document |
| Institutional data in the prescribed format | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.51

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 18 | 8 | 23 | 14 | 2 |

| File Description | Document |
|--|-------------------------------|
| List of chapter/book along with the links redirecting to the source website | View Document |
| Institutional data in the prescribed format | View Document |
| Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

ASIET has impactful **community engagement** activities in the **neighborhood**, addressing key social issues and fostering social responsibility among students and faculty, thereby creating an ecosystem for **holistic development**.

ASIET received **51 awards**, including, Prestigious **National President Award for Best NSS Programme Officer & Unit for 2020-21**, presented by President Smt. Droupadi Murmu at Rashtrapati Bhawan on September 24, 2022.

The institution's extension activities are led by two units of the **National Service Scheme (NSS)**, **Ranger Rover unit of Hindustan Scout and Guides**, **Unnat Bharat Abhiyan (UBA)**, **Swachh Bharat Abhiyan**, **Ek Bharat Shreshtha Bharat**, and other clubs including,

- **BIS standards:** To sensitize on Indian Standards
- **Red Ribbon:** Creating Awareness on AIDS
- **Bhoomithra Sena:** Promoting environmental protection activities
- **Tourism:** To promote Tourism
- **Bhoomi:** Social Service Activities
- **Asaad Sena:** Promoting awareness against Drug abuse.
- **Road Safety:** Creating awareness of Road safety.

The **major extension activities** executed are

- **“Home for Homeless”**- Building houses for the needy.
- **“Vidhyuth”**- Free electricity to 105 households since 2013.
- **“Punarjjanii”**- Renovation of hospital equipment worth 1.5 crore.
- **“Paristhithikam”**- Nature Awareness program funded by **Directorate of Environment and Climate Change., Government of Kerala**
- **“Urjjakiran”**- Energy Awareness programs funded by **EMC Government of Kerala**.
- Project focusing on **air quality monitoring, flood alert systems, and distributing drinking water**; funded with **2.9 crores** by **MeitY, Government of India**.
- **“Baltemgyrate”** project to assist individuals with Parkinson’s disease
- Adopted **five villages** under the **Unnat Bharat Abhiyan** for rural development initiatives. Additionally, the NSS unit **adopted two more villages** for similar rural development efforts.
- **Flood Relief Centre**- 2018-19 floods.
- **Kaithangu**- flood relief material dispensation.
- **“Rapid Visual Survey”**- Inspection of damaged premises during the 2018 flood.
- **Rebuild Kerala Survey**- Assessment of damaged houses for District administration
- **“Do for Kerala”**- flood relief materials for nearby districts.
- **Green Protocol Implementation** for District Administration.

Activities during Covid 19 pandemic:

- Donated three **refrigerators to First line treatment center and sanitizer units to Angamaly**

railway station

- **Awareness classes on corona precaution and prevention**
- **Developed ASIET's COVID care website** to support COVID-19 activities.
- **“Adi Shankara Jeeva Vaayu”- Developed a range of medical ventilators. Hon’ble Minister, V.S.Sunilkumar transferred it to General Hospital, Ernakulam.**

Outreach Activities

- **Uddyotana**– For Higher Secondary Mathematics Teachers.
- **Mappathon**- Mapping of assets of 5 panchayats to the OSM map.
- **Career Guidance classes and Entrance coaching** for higher secondary students.
- **River rejuvenation project**, association with water resource department.
- **Consultancy** to Kochi metro.
- **Distributing lunch** packets to old-age homes.

NSS extension activities of Adi Shankara

- Awareness programs- **Anti-drug, No Tobacco Day.**
- **Water Quality testing** for houses in Kalady panchayat.
- **Coastal clean-up campaign.**
- **One student-One book campaign** - Distributed notebooks, bags, and study materials to flood zones.
- LED bulb-making training- **Kudumbasree** members.
- **Urjjakiran Rally and Signature campaign** in association with EMC, Kerala.
- Observation of **Autistic Pride Day** with **mentally challenged and old people** at care homes.
- Conducted **blood donation camps, medical camps, eye testing camps, and stem cell donation registration camps.**
- Volunteered **Jeevika 2022**, in coordination with **Nehru Yuvakendra.**
- **Project Ganitham**- Support government school students in mathematics.

| File Description | Document |
|---|-------------------------------|
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| Provide Link for Additional information | View Document |

3.4.2**Awards and recognitions received for extension activities from government / government recognised bodies****Response:**

ASIET received **51 awards and recognitions** for its extension activities from government and recognized authorities.

September 24, 2022, ASIET's MT. **Sri. K. Anand** and **NSS Programme Officer Prof. Sijo George** were honored by **Hon'ble President Smt. Droupadi Murmu** with awards for **Best NSS Programme Officer and Best NSS Unit in India** for 2020-2021.

| SL NO | Awards/Certificate appreciation | of | Governmental/non-governmental |
|------------------|---|----|--|
| 2022-2023 | | | |
| 1 | Achievement Certificate for coordinating project-Ganitham | | Kerala State NSS cell(Govt.) |
| 2 | Appreciation Certificate for organizing a voluntary Blood Donation Camp | | KSBTC(Govt.) |
| 3 | Appreciation certificate for coordinating District Level Quiz Competition | | Kerala State Excise Department(KSED)(Govt.) |
| 4 | Appreciation certificate in IEDC Summit | | Kerala start-up Mission(Govt.) |
| 5 | Certificate of recognizing IEDC as a TBI | | |
| 6 | IAS CMD Outstanding Member Award | | |
| 7 | Regional Exemplary Student Branch Award. | | IEEE Kerala Section(Non-Govt.) |
| 8 | Outstanding Student Volunteer award. | | |
| 2021-2022 | | | |
| 9 | Appreciation for organizing State Level ENERGY CELL Annual Meet. | | APJ Abdul Kalam Technological University(APJAKTU)(Govt.) |
| 10 | Best NSS volunteer award | | |
| 11 | Best regional Coordinator of ' Rudhirasena ' | | |
| 12 | Regular Blood Donor award | | Terumo Penpol Pvt Ltd(Non Govt.) |
| 13 | Appreciation in District level competition Sparsham-21 | | Dept. of Higher-Education and KSED(Govt.) |
| 14 | Appreciation certificate for the service as coordinator to Covid Warriors | | Kerala State NSS Cell(Govt.) |
| 15 | Appreciation certificate for organizing the maximum number of blood camps | | APJAKTU NSS Cell(Govt.) |
| 16 | Appreciation certificate for exemplary service as COVID warrior cell | | Dept. of Higher-Education (Govt.) |
| 17 | Appreciation Certificate for coordinating the virtual IEDC SUMMIT | | Kerala Start-up Mission(Govt.) |

| | | |
|------------------|---|---|
| 18 | Outstanding Branch Counsellor Award | IEEE(Non-Govt.) |
| 19 | Regional Exemplary Student Branch Award. | |
| 20 | Achievement Certificate for securing Overall Champion-Gold in Orion-2.0 | |
| 21 | Outstanding Student Humanitarian Volunteer Award | |
| 22 | Outstanding Student Volunteer award | |
| 2020-2021 | | |
| 23 | Appreciation Certificate to NSS unit | District Suchithwa-mission, Ernakulam(Govt.) |
| 24 | Best NSS program officer award | APJAKTU NSS Cell(Govt.) |
| 25 | Best NSS Volunteer award | |
| 26 | Best NSS unit award | |
| 27 | Best NSS unit Award | Dept. of Higher- |
| 28 | Best NSS Volunteer award | Education(Govt.) |
| 29 | Best NSS program officer | |
| 30 | National award for best NSS unit | Govt. of India |
| 31 | National award for Best NSS Programme Officer | |
| 32 | Featured in mygov.gov page as a best practice | |
| 33 | Appreciation for Innovative project | International Chamber for Service Industry(Non-Govt.) |
| 34 | Regional Exemplary Award 2020 | IEEE(Non-Govt.) |
| 2019-2020 | | |
| 35 | Best NSS unit award | Dept. of Higher- |
| 36 | Best NSS program Officer award | Education(Govt.) |
| 37 | Best NSS volunteer award | Kerala State NSS Cell(Govt.) |
| 38 | NSC Social Service Award | NSC(Non-Govt.) |
| 39 | Top Performer Award in FAB challenge | Kerala-Start-up- Mission(Govt.) |
| 40 | Outstanding Volunteer Award | IEEE(Non-Govt.) |
| 2018-2019 | | |
| 41 | Best NSS unit award | Kerala State NSS Cell(Govt.) |
| 42 | Best NSS program Officer award | |
| 43 | Best NSS Volunteer award | |
| 44 | Best Swatch-Bharath Intern Award | |
| 45 | Appreciation for Punarjjani | |
| 46 | Appreciation Certificate for | HK Mission(Govt.) |

| | | |
|----|---|---------------------------------------|
| | green protocol implementation | |
| 47 | Appreciation Certificate for promoting 'Financial Inclusion' Scheme | Postal department(Govt.) |
| 48 | Certificate of completion of AQMS product | ITI(Govt.) |
| 49 | Entrepreneurship Enabler Award | Kerala-Start-up-Mission(Govt.) |
| 50 | Secured third position in Tech4seva | Kerala Agricultural University(Govt.) |
| 51 | Outstanding Student Volunteer Award | IEEE(Non-Govt.) |

| | |
|---|-------------------------------|
| File Description | Document |
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 76

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 14 | 12 | 10 | 17 | 23 |

| | |
|--|-------------------------------|
| File Description | Document |
| Photographs and any other supporting document of relevance should have proper captions and dates. | View Document |
| Institutional data in the prescribed format | View Document |
| Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 43

| File Description | Document |
|--|-------------------------------|
| Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc. | View Document |
| List of year wise activities and exchange should be provided | View Document |
| List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise | View Document |
| Institutional data in the prescribed format | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

The ASIET's campus spans 10 acres, featuring built-up area of 69784 sq.m. ASIET's utmost priority is on establishing, maintaining, and enhancing **infrastructure** for academic excellence. The classrooms are equipped with **ICT facilities** with **LMS, Virtual Lab** and innovative platforms to implement blended/hybrid learning methodologies for **effective teaching learning**.

Aligned with the Honorable **PM's Fit India movement and Yoga for Well-being** initiative, ASIET promotes health and mental well-being of inmates by offering state-of-the-art facilities for **yoga, sports, games, and physical health** activities

Classrooms Facilities:

- 100% classrooms are ICT-enabled with Wi- Fi internet connection and are well supported with projectors/interactive smart panels/LMS
- 85 Wi-Fi access points with 1GBps internet leased line support
- 75 LCD Projectors, 12 Smart Panels, 6 LED TV and 2 smart TV.
- ERP&LMS- Etlab & Linways
- 2 Conference Halls and a Board room for meetings and group activity
- 6 Seminar Halls, 2 Auditoriums among one is Open air

Laboratories: 76 laboratories(UG and PG) with state-of-the-art modern equipment and facilities for academic and research activities for all departments.

Virtual Lab: Ranked NO.1 Nodal center for **Virtual Labs** under **NMEICT** in **Kerala**

Computing Facility:

- Computers: 860
- Laser Printers and scanners: 64
- Internet Connectivity: 1 Gbps
- Back up Line: 100Mbps
- Internet Security: Fortigate 200F Firewall
- UPS facility for all Laboratories

Library:

- Reading area:743 sq m
- Digital Library: 15 Computers with Internet and Knimbus Platform, Language Lab facility.
- TurnitIn Plagiarism Software.
- Automation: KOHA and Bar coding
- Journals:97
- E book: EBSCO
- E Journals: Carpet Area:929 sq m.
- IEEE, ASME, JST, JSSH, DELNET, Science Direct.
- Access to National Digital Library, Shodh Sindhu and Shodh Ganga.
- Facilities for Divyangjan

Facilities for Cultural Activities:

- Open-air Auditorium with 1400 people seating
- ICT-enabled auditorium accommodating 400 individuals
- Main seminar hall with capacity of 280 attendees

Facilities for Yoga :

- Open air auditorium for daily Yoga Practice
- College auditorium for Sessions and observing Yoga Day

Availability of Sports Facilities:

- Badminton, Basketball and volleyball courts
- Cricket practicing nets
- Football ground
- Fully equipped gymnasium
- Indoor games facilities like Carrom board and chess board

Transportation Facility: The College offers **19** buses covering **4** districts to commute staffs and students.

Centralized valuation camp: The institute serves as the venue for centralized valuation camp, catering to nearby colleges affiliated with APJKTU, offering facilities.

Facilities for innovation, incubation and entrepreneurship:

- **ASIET FAB LAB**
- **IEDC and Technology Business Incubation Center** has currently incubated 10 startups founded by our alumni

Divyangjan Facilities

- Ramps, Parking Facility, Wheel Chair

Other Facilities

- Canteen , Cafeteria
- Bank , ATM
- Reprographic center
- Central Stationery store facility
- Sick rooms
- Administrative Office and Corporate office
- Public Addressing System
- Parking facility for staff and students
- Facilities for professional body activities, student chapters and union

Upskilling Facilities

- Adi Shankara Digital Academy
- Adi Shankara Skill Kendra
- Placement and Training Cell

Waste Management Facilities

- Bin Composting Unit
- STP
- Incinerators

Energy Management Facilities

- Solar Power Plant
- Diesel Power Plant
- Substation

Water Resource Management Facilities

- Bore wells
- Rainwater Harvesting Unit and Water storage tanks
- Water Coolers-6
- Purifiers-21

Safety Facilities

- CCTV
- Fire Extinguisher

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 32.4

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 269.27 | 107.68 | 29.43 | 113.77 | 297.57 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in the prescribed format | View Document |
| Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted) | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The Central Library stands as a leader in digital advancement, featuring an **automated system** powered by ILMS. By offering extensive **subscriptions to e-resources and journals**, the library meets the varied needs of the inmates. Spanning across 929 square meters in the main academic block over two floors, the library offers a **tranquil environment for learning and research**. With seating for up to 120 individuals, ensuring ample space to explore the resources.

Features of the ASIET central library:

| | |
|---|-----------------|
| Carpet area | : 929.03 sq.m. |
| Area designated for reading | : 743.224 sq.m. |
| No. of staffs | : 4 |
| No. of staff with a degree in library management | : 3 |
| Total Number of Volumes | : 38170 |
| Total No.of Titles | : 14148 |
| Computerization for search indexing, issue return records | : KOHA |

By 2017, the library was automated by using **KOHA**, version 22.11.03.000. Leveraging its features for book circulation, gate register management, and an **Online Public Access Catalog (OPAC)** system, now the library operates with enhanced efficiency.

Enhancing Academic Resources: ASIET's Central Library **Subscribes E-Resources and OER Access** and offers an array of e-resources aimed at enriching reference materials in the fields of science, technology, and management studies. With **IP-enabled access to e-books** and various e-resources such as,

- IEEE ASPP by IEEE
- EBSCOHOST
- ASME
- JGatePlus (for Engineering and Management studies).
- DELNET
- Membership in National Digital Library of India (NDLI)
- DSPACE (version 1.7.0)
- KNIMBUS
- TURNITIN

Enhancing Learning Resources at ASIET Central Library

- The library is entrusted by a proficient Librarian, tasked with strategic planning, procurement of books, and ensuring the library's upkeep.
- Book acquisitions are tailored to meet the specific needs of various departments in alignment with the prescribed curriculum of their respective courses.
- The formation of a **Library Advisory Committee (LAC)**, comprising the Principal, Librarian, and other staff members, by conducting the regular meetings the committee fosters the efficient working of the library.

Curating Special Collections

Sankara Collections: ASIET Library boasts a dedicated compilation of 216 books of the philosophies of Sri Shankaracharya. This Corner promotes integration of traditional Indian philosophical insights into academics, incorporating the goals of NEP 2020 to integrate India's rich knowledge systems. The

Sankara collection of Scholarly books and articles inculcate the human values by transmitting the tradition and culture towards the students and teachers without fading the value of **Indian Knowledge System**. ASIET offers **Divyangjan** facilities, the Indian Sign Language (ISL) Dictionary, National Accessible Library membership, JAWS talking screen reader, and WhitePrint journals, designed to improve communication, accessibility, and inclusion for disabled citizens. Library houses Focus Zone (for competitive examinations) and Linguistic Haven (for foreign language training), Reference Section and Digital Library.

Library Utilization Monitoring System

Monthly and yearly reports, generated through the library management system, provide insights into library usage, including:

- **Tracking** gate register readings.
- Recording daily borrowing and returning activities of materials by inmates via KOHA
- Evaluating the average utilization of electronic resources accessible through E resources

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

The institution updates its **IT facilities** to meet the modern requirements through latest innovative technologies and follows IT policy and E-governance policy to improve the **effectiveness of IT infrastructure**, the **E Governance policy** provides transparency across all departments.

- There are **860 computer systems available** in labs, HOD rooms, departments, and offices, with 777 for students and 83 for staff.
- Classrooms are equipped with **LCD projectors and Wi-Fi facilities** where faculty can use the technology for efficient learning.
- In 2022-2023, the institution possessed a total of **51 printers**, including 3 color printers. However, the count has hiked to 64 printers.
- **Video conferencing facilities** are available in seminar halls of respective departments.

- The campus has a **Central Computing Centre with 144 desktop computer systems** provided exclusively for general activities like internet browsing, coding, data entry, and online examinations.
- The institution has **74 IP cameras** placed in classrooms and corridors, which can be monitored from Principal's cabin, exam cell, security cabin, and NOC room.
- **Reprographic services** are provided in the campus.
- Provisions for **cashless transactions** are made available for fee payments.

Internet & Wi-Fi Facility

- The institution ensures ample **internet bandwidth, with a capacity of 1 Gbps** by Asianet.
- Internet access is available in all classrooms, laboratories, offices, departments, and hostels via **Wi-Fi and high-speed connectivity** is provided through Ethernet/optical cable LAN services.
- ASIET has a **hybrid network topology of ring and star**. 23 nos of L2 manageable switches are used for Network segregation(LAN,Wifi and CCTV)
- **Microsoft Campus Licensing Agreement** governs the operating system of all computer systems in campus hence, all the computer systems inside campus are automatically upgraded to latest operating system versions released by Microsoft.
- **ERP system LINWAYS** was introduced in 2017 as part of up-gradation including admission, attendance marking, TC generation, fee payment, resource booking, conduct of examination, hostel administration, purchase and accounting modules. Currently ASIET makes use of ETLAB.
- **Biometric system** is enabled for automated attendance recording of staff.
- The institution utilizes the '**ZOOM webinar**' platform for hosting webinars with a capacity of almost 1000 participants.
- The institution maintains its own active **YouTube channels, social media handles, and newsletters**.
- Institution has developed '**VEMP**' for online event management and event conduction where multiple events/ programs can be coordinated simultaneously without any disruption.

Digitization of Library

- ASIET's fully **automated library**, utilizes **KOHA** to provide a user-friendly interface for searching documents and monitoring their status of issuance.
- In order to ensure safety and security of data, a **licensed Fortigate firewall** with web and application filters are used.

Internet Connectivity

| Internet Connection | |
|---------------------|--------------------------|
| Service Provider | Asianet |
| Bandwidth | 1 Gbps (1:1 Leased Line) |

Other Facility

- ASIET has **13 workstations and 85 wi-fi access points** located at different departments.
- A **Hi-Tech lab** with **TV AUDIO SYSTEM** and **SPEAKER** is available for conducting various expert talks.
- All computer laboratories are equipped with a **UPS Backup** of 30-minute. Additionally, the campus has 35 UPS installations and two diesel generators (160 KVA and 100 KVA) to

guarantee continuous power supply.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 2.69

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 777

| File Description | Document |
|---|-------------------------------|
| Purchased Bills/Copies highlighting the number of computers purchased | View Document |
| Extracts stock register/ highlighting the computers issued to respective departments for student's usage. | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 12.29

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 88.72 | 51.51 | 31.64 | 81.75 | 56.61 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in the prescribed format | View Document |
| Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted) | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 72.42

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 1566 | 1837 | 1480 | 1278 | 1122 |

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

| File Description | Document |
|---|-------------------------------|
| Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills) | View Document |
| Report with photographs on ICT/computing skills enhancement programs | View Document |
| Institutional data in the prescribed format | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 60.3

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 1659 | 995 | 963 | 1372 | 1075 |

| File Description | Document |
|---|-------------------------------|
| Upload supporting document | View Document |
| Institutional data in the prescribed format | View Document |

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

| File Description | Document |
|--|-------------------------------|
| Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance | View Document |
| Proof related to Mechanisms for submission of online/offline students' grievances | View Document |
| Proof for Implementation of guidelines of statutory/regulatory bodies | View Document |
| Details of statutory/regulatory Committees (to be notified in institutional website also) | View Document |
| Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 60.1

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 209 | 280 | 280 | 301 | 269 |

5.2.1.2 Number of outgoing students year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 375 | 431 | 450 | 517 | 455 |

| File Description | Document |
|--|-------------------------------|
| Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website) | View Document |
| List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website) | View Document |
| Institutional data in the prescribed format | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 15.75

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 32 | 39 | 27 | 24 | 18 |

| File Description | Document |
|--|-------------------------------|
| List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination | View Document |
| Institutional data in the prescribed format | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 19

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 13 | 1 | 3 | 2 | 0 |

File Description**Document**

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 25.2

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 29 | 20 | 30 | 21 | 26 |

| File Description | Document |
|---|-------------------------------|
| Upload supporting document | View Document |
| Institutional data in the prescribed format | View Document |

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

AAKASHIEN (Alumni Association of Kalady Adi Shankara Institute of Engineering and Technology)

The college has **registered Alumni association, AAKASHIEN** with registration number 127/IV/2023. It provides, interface for establishing a link between the alumni, staff, and students of ASIET. The association encourages alumni to participate in and contribute to academic and non-academic activities, and provide financial support to the college.

Fledging and Growth

- The Alumni Association of ASIET had a modest beginning in 2005-2006 and registered in 2023. It now counts more than **7,000 alumni members**.
- Every year, an **alumni meet** with large participation is held in the college in the month of April/May.
- For 2005 to 2009 batch graduates of the institute, a **decennial celebration** was organized in June 2019, and for 2010 to 2012 batch graduates, it was conducted in July 2022.
- Alumni stay connected with the institute through social media platforms like LinkedIn, Facebook, Instagram, and Twitter, enabling direct communication, networking, and community building with their alma mater and fellow graduates.

Contribution to the Alma mater:

The alumni support us both financially and non-financially.

FINANCIAL CONTRIBUTIONS:

The Alumni have created a corpus fund of **Rs. 50 lakhs**, the interest of which is being utilized for various activities in the college.

The Alumni Association has contributed a sum of **Rs. 30,19,382** over the last five years (2018-2023).

- **Empowering Education and Innovation:** The Alumni Association initiated a **scholarship**

program under which selected **projects will be awarded Rs. 30,000 per year**, benefiting students from all departments. Additionally, the Alumni contributed **Rs. 3.5 lakhs** for the National Level Techno-cultural Fest “Brahma” and “Gamethon”

- **Assistance in times of crisis** - During the flood of 2018, the Alumni supported ASIET students, staff and the public by donating **Rs. 3 lakhs**.
- **Infrastructural upgradation** - In 2022, the Alumni donated **Rs. 10 lakhs** for the **centralized Robotics lab facility**.

NON-FINANCIAL CONTRIBUTIONS:

1. **Associating with Internships and Project works**:-Alumni serve as valuable resources and mentors, supporting students in gaining practical experience and developing skills through internships and project work.
2. **Career and placement support**: - Alumni offer industry insights, share personal experiences, and provide guidance on navigating the job market. They offer recruitment tips, facilitate connections with employers, and introduce job opportunities.
3. **Alumni-led Innovation Ecosystem**:- Alumni who have founded startups deliver **guest lectures** to share their stories and challenges with students, fostering an **innovation ecosystem** within our institution.
4. **Bridging Industry-Academia gap**:-The institute maintains a robust Alumni feedback system focused on curriculum and campus ambience, gathering insights into industry-academia gaps and challenges. This feedback aligns the institution with industry trends, ensuring students receive a comprehensive education.
5. **Contributing Textbooks**:-Alumni contribute to the **growth and development of library resources** by donating books.
6. **Motivation and Knowledge sharing sessions**:- Expert talks by alumni enable students to learn about emerging trends and technologies in their field, providing practical insights on preparing for careers in the industry.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

Under the governance of the **Adi Sankara Trust**, ASIET emphasizes quality education, a holistic approach to student development, cultivates a sense of responsibility and civic duty. This commitment is upheld with gracious blessings of **Sringeri Mutt**.

Vision

To emerge as a Center of Excellence in Engineering, Technology and Management by imparting quality education, focusing on empowerment and innovation.

Mission

- Impart quality professional education for total upliftment of the society.
- Create congenial academic ambience that kindles innovative thinking and research.
- Mold competent professionals who are socially committed and responsible citizens.

To attain the vision in alignment with the mission, the institute always focussed on providing **outcome-based education** and an environment to develop innovative products through **Innovation and Entrepreneurship Development Centre**. ASIET aims to create **congenial academic ambience** which improves themselves to participate in research and funded projects.

NEP Implementation

ASIET upholds Indian culture and heritage through events like "**Thyagaraja Aradhana - a classical rendition of famous Pancharatna Kritis**", a showcase of classical music and dance forms during "**Brahma**."

Furthermore, ASIET's **Adi Shankara Digital Academy (ASDA) platform** offers online courses in **Vastu Shastra, Vedic Mathematics, and Yoga**. These courses cater to both internal and external participants, aiming to extend educational reach and provide opportunities for upskilling rooted in **traditional Indian knowledge**.

ASIET promotes online, self-paced learning as a local chapter for SWAYAM and NPTEL, contributing to the implementation of NEP goals.

Governance Mechanism

ASIET implements, streamlined governance structure that integrates **decentralization and participative management** among various councils:

- The **Governing Body** includes representatives from Adi Shankara Trust, technocrats, and academicians ensuring effective governance and well-being.
- The **Management Council** oversees all institutional affairs, including financial management, resource allocation, and infrastructure development.
- The **College Council** advises, Principal on routine institutional matters and manages day-to-day affairs, overseeing the operational aspects of ASIET.
- The **Academic Council**, chaired by Principal, collaboratively makes decisions on academic matters to uphold the excellence of all academic programs.
- **The IQAC** is effectively functioning in ASIET ensuring quality in all decisions and conduct of activities.
- Administrative responsibilities are **decentralized, with department heads and functional committees** entrusted with specific roles. This approach fosters a distributed governance system that enhances efficiency and **accountability**.
- Within departments, academic administrative tasks are delegated among faculty members to optimize operational effectiveness.

In addition, the **staff** act as members of various cells like

- Anti-Ragging Committee
- Grievance Redressal Cell
- Industry-Institute Partnership Cell
- Institute Innovation Cell
- Women Empowerment Cell

The **student representatives** participate in various cells ensuring effective execution of student requirements.

Case Study on Participative Management

Various **Committees** are formed at both department and institute levels to coordinate academic and non-academic activities. These are led by senior faculty members, and **regular meetings** are held to discuss issues and make decisions where they can actively participate and provide their critiques. Regular **monitoring** mechanisms, ensures proper **implementation of policies** and decisions taken by committees. **Surveys** are conducted to collect feedback from inmates, external stakeholders, alumnis, parents and their suggestions are taken into account in the processes.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

The institutional **perspective plan** serves as a strategic framework that drives effective governance and operational efficiency. This is evident in the cohesive alignment of policies, administrative setup, appointment procedures and service rules. These elements collectively ensure that institutional bodies function efficiently and effectively, contributing to the overall success and advancement of the institution.

Various **institutional bodies** for efficient and effective functioning of the institute are

- **Governing Body:** Comprises management, academic, and industrial experts for effective governance.
- **IQAC** oversees quality enhancement measures.
- **Management Council:** Manages overall institutional affairs, including finance, administration, resource allocation, and infrastructure development. Includes management representatives, Sr. Associate Director, Principal, General Manager, Deans, and Department Heads.
- **College Council:** Advises Principal on routine matters, including department heads, physical education incharge, elected student representatives, and teachers.
- **Academic Council:** Decision-making body on academic matters chaired by the Principal. Includes Deans, IQAC coordinator, department heads, PG Coordinator, first-year coordinator, and placement officer.
- **Grievance Redressal Cell:** Addresses student grievances, forwarding appeals to the Principal with recommendations.
- **Internal Complaints Committee:** Confidentially handles complaints of sexual harassment, discrimination, and other grievances.
- **Women Empowerment Cell:** Empowers female stakeholders, addresses women-related issues, and ensures campus safety.
- **Research Cell:** Formulates publication strategy, manages funding, and oversees patents through respective department representatives.
- **Industry Institute Partnership Cell (IIPC):** Bridges academic knowledge with industry skills.
- **Faculty Professional Enrichment Cell (FPEC):** Enhances professional development of faculty.
- Various committees such as Admission, Student Council, Anti-ragging, Purchase, Library, PTA, Alumni, etc., support seamless operation of the institution.

Appointment and service rule

The appointment and service rules at our institution are designed to be **transparent and accessible, ensuring clarity and fairness** for all stakeholders.

Institute Perspective Plan (2017-2032)

The institution has prepared a well-defined perspective plan to fulfill academic development, extracurricular activities, research, social commitment, and ethical values. These targets have been set with extensive consultation with all institution stakeholders. Major thrust areas and actions identified in the development plan will lead the institution to become the ultimate goal - A Centre of Excellence.

The institution's goals are:

Short-Term Goals: Our immediate priorities include achieving NBA accreditation for all undergraduate programs, securing NSDC affiliation, enhancing extracurricular activities with a focus on ethical values, and entering the NIRF ranking band to bolster our institutional reputation.

Mid-Term Goals: Looking ahead, we aim to attain accreditation by statutory bodies and autonomous status, establish a skill development center, and foster collaborations with national and international universities to enhance student skills and global partnerships.

Long-Term Goals: In the long term, we aspire to attain Deemed University status, gain international recognition, and become a leading center of excellence in research and academic innovation, contributing significantly to societal development and global knowledge advancement.

Deployment of strategic plan (Case study)

30 KWp on-grid solar power plant

The Institution has installed a 30 KWp on-grid solar power plant at our roof top premises (Roof of Central Computing Facility - CCF Block) under the ANERT Solar Rooftop scheme and got approved by the Electrical Inspectorate, Government of Kerala in October 2017.

| File Description | Document |
|--|-------------------------------|
| Upload Additional information | View Document |
| Institutional perspective Plan and deployment documents on the website | View Document |

6.2.2

Institution implements e-governance in its operations

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

| File Description | Document |
|--|-------------------------------|
| Screen shots of user interfaces of each module reflecting the name of the HEI | View Document |
| Institutional expenditure statements for the budget heads of e-governance implementation ERP Document | View Document |
| Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Welfare measures for Teaching and Non-teaching Staff

ASIET implements several policies that support the welfare of staff members.

1. Financial benefits

- Gratuity is given to all the staff of ASIET
- Employees' Provident Fund (EPF) and Employee State Insurance (ESI) benefits are given to non-teaching staff.
- Group personal accident policy benefit
- Faculty members participating in the faculty development programmes (FDP)/conferences are entitled to claim the registration fee.
- Towards professional body membership, faculties are eligible to get 50% of the membership fee from the institution.
- Fee concessions are provided for the children of teaching and non-teaching staff.
- Free uniforms are provided to college bus drivers.

2. Facilities

- Banking facility: Banking and ATM facilities are available in the campus.
- Transport Facilities: Faculties are given 50% concession in college bus fees.
- Separate wellness clinic is available which is effectively run by a doctor from a reputed hospital nearby.

- Counselling facilities are available for both students and staff.
- Separate vehicle parking for faculties.
- A store and reprographic center.
- The college canteen is provided with separate seating facilities for staff.
- A well maintained cafeteria is functioning in the campus.
- Central Computing Facility (CCF).
- The College is fully Wi-Fi enabled.
- Annual recreational activities and free medical camps
- Women Empowerment Cell
- Internal Complaints Cell
- Grievance Redressal Cell
- Gender and Equity Cell

3. Leave benefits

- Duty leaves
- Paid medical leaves are allowed for staff in case of hospitalization.
- Paid block leaves
- Paid maternity leaves
- Study and Research leaves

4. Recognitions and Rewards

- Best teacher awards and appreciation letters are given to staff based on academic results achieved in University examinations.
- Staff are appreciated for their achievements in various academic and non academic activities.
- Staff are appreciated for scoring excellent in the performance appraisal process.
- Staff are given promotions based on their experience and qualifications.

Performance appraisal system

The institute has an adequate Performance Appraisal System for both teaching and non-teaching staff. Setting attainable goals helps to inspire employees and give them greater confidence. The Performance Appraisal System consists of 4 stages.

Stage-1: Self-assessment

All the staff members are required to submit a self-evaluation of their performance against the established performance metrics at the end of every academic year.

Stage-2: Supervisor assessment

The Head of the Department verifies the information entered by the faculty in the Evaluation/Assessment report, and will provide a score (out of 10) based on his/her performance.

Stage-3: Grading

A committee including Principal and HoD will evaluate the employee's performance against the

established performance metrics and provide ratings for each faculty.

Stage-4: Feedback and Appreciation

The committee provides feedback to every faculty member based on the evaluation report and areas of improvements are discussed and documented. The faculties having notable achievements are appreciated appropriately. Appreciation letters are also given to those faculties who get excellent results in university exams.

Avenues for career development and growth

- Conferences and FDP are organized at national and international levels
- IEDC, TBI and FABLAB
- Research cell

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 34.39

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 08 | 41 | 63 | 52 | 85 |

| File Description | Document |
|---|-------------------------------|
| Policy document on providing financial support to teachers | View Document |
| Institutional data in the prescribed format | View Document |
| Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head. | View Document |
| Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 51.77

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 95 | 80 | 115 | 76 | 101 |

6.3.3.2 Number of non-teaching staff year wise during the last five years

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 35 | 34 | 35 | 37 | 37 |

| File Description | Document |
|--|-------------------------------|
| Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise. | View Document |
| Institutional data in the prescribed format | View Document |
| Copy of the certificates of the program attended by teachers. | View Document |
| Annual reports highlighting the programmes undertaken by the teachers | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Institutional Strategies for mobilization and optimal utilization of resources and funds

The institution has a very reliable system in place to estimate its financial needs through annual budgets, to diversify its funding sources through resource mobilization, and to ensure that the funds raised are used effectively and efficiently. Before the commencement of every financial year, HODs submit their **proposals for budget allocation for the next financial year** under various heads of account. The management and the Principal review the previous years' actual expenses of the departments and the requirements of the present year as projected by the departments and thereafter, a consolidated budget is prepared. The consolidated budget is then submitted to the management for approval.

Funding Sources

- The institution's primary source of internal revenue comes from the **fees collected from students**. Another significant portion of the earnings comes from the hostel fees.
- The Institution also raises funds for a variety of purposes, such as departmental workshops and seminars, consulting services, faculty development programs, and sponsorship for a variety of student activities. **Contributions from alumni** are another source of raising funds.
- During holidays, the government and other organizations like TCS regularly **conduct exams in our computer labs on hire basis**.
- The faculty members and various cells of the **institution receive grants for research and innovation from Government and Non-Government agencies** like KSCSTE, CERD, RSM,

AICTE, KTU, Kerala Start-Up Mission etc.

Utilization of Resources:

All money received is transferred through the institution's accounts to ensure that the money that was raised is used for the intended purpose. **Internal and external audits** are performed to ensure efficient account management.

Financial Audits

Institution conducts **external and internal financial audits regularly**. It reviews and approves information and compliance with policies and SOPs. The Books of Accounts of the Institute are audited by the Chartered Accountants. As per the Income Tax Act, statutory audit is conducted once in a year by the designated External Auditors.

Internal Audit

All bills and vouchers are checked, verified and audited by the Audit and Accounts section before passing to the Principal/COO/ MT. **A committee, consisting of two staff auditors** (internally designated) conducts internal auditing of the accounts **once or twice during a Financial Year** and reports its findings for compliance.

External Audit

All the financial transactions of the college are **audited by statutory auditors annually**. They examine the institution's Book of Accounts and make assessments of whether it keeps accurate financial records. Accounts for sources of revenue and expenses are verified by the auditor. Additionally, check to see that statutory payments like TDS, Professional Tax, ESIC, and PF are made on time for their due dates and reconcile bank accounts. Audit observations/objections on any inconsistencies are handled within the given time frame as per 8th guidelines of the Statutory Auditors.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

Two best practices institutionalized as a result of IQAC initiatives are

Practice 1: Faculty competence and Student proficiency enrichment activities

- Various **Faculty Development Programmes (FDPs)** are organized to update faculty knowledge and skills to keep abreast of latest developments.
- Faculty and students get assistance to **publish papers** in reputed journals, get **research grants** and participate in conferences and workshops to enhance their research skills.
- Encourages **MOOC certifications** for faculty to provide them with in-depth domain knowledge.
- **Add-on courses** are provided through student chapters, clubs and associations units to help students gain additional knowledge and skills.
- Promotes **internships and industrial visits** for students to impart practical knowledge for making them industry ready.
- Initiatives for enriching **soft skills, language and communication skills, and ICT skills** are taken for enhancing the employability of students.

Practice 2: Nurturing Research and Innovation Ecosystem

- Computer Science, Electronics and Communication, Electrical and Electronics departments have become **research centers** under Kerala Technological University having 6 research guides and 23 research scholars with assistance of various research laboratories to kindle research interests.
- **Innovation and Entrepreneurship Development Centre (IEDC), Fabrication Lab and Technology Business Incubator (TBI)** are established for taking up the entrepreneurial journey to the next level.
- The institute established **Institute Innovation Council (IIC)** in association with the Ministry of **Human Resource Development**, Government of India.
- The ASIET IEDC received **Entrepreneurship Enabler Awards** and was selected as best **IEDC in the state in the years 2016, 2017 and 2018.**

IQAC reviews teaching learning process and ensures quality by using

- Auditing system
- Periodic review for ensuring outcome based education

Auditing system

There are two types of academic audits

- **Internal Audit:**

Internal audit is conducted department wise and each department will be informed one week prior to the conduct. IQAC prepares a schedule and list of auditors. Observations are documented and handed over to heads of departments and the Principal. Corrective actions are implemented in departments.

- **External Audit:**

The external audit is scheduled by the university and appoints an external auditor. External audit reports will be sent to the Principal and will be circulated to IQAC and to all departments. IQAC takes appropriate actions for comments made in the audit, keeps a record and forwards to the next IQAC meeting.

Periodic review for ensuring outcome based education

- IQAC representatives of each department reviews course delivery manuals. Stream coordinators, head of the department and IQAC representatives verify the **course outcomes**, their **mapping** to programme outcomes and programme specific outcomes, before commencement of semester. They check the attainment of course outcomes from the impact analysis report of the previous year and if not attained, the course instructor takes necessary steps to improve attainment.
- IQAC, stream coordinators and heads of departments collectively ensure standards of **internal examinations** by checking compliance of each question with specified Bloom's taxonomy levels.
- Prepares **academic calendar** and monitors progress of semester.
- Reviews **course conduct** and syllabus completion.
- Takes **feedback** on teaching effectiveness from students

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

6.5.2

Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented
2. Academic and Administrative Audit (AAA) and follow-up action taken
3. Collaborative quality initiatives with other institution(s)
4. Participation in NIRF and other recognized rankings
5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

Response: A. Any 4 or more of the above

| File Description | Document |
|---|-------------------------------|
| Quality audit reports/certificate as applicable and valid for the assessment period. | View Document |
| NIRF report, AAA report and details on follow up actions | View Document |
| List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date. | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |
| Link to Minute of IQAC meetings, hosted on HEI website | View Document |

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

ASIET promises **equal opportunities** for education, resources and support for students to their fullest potential ensuring **gender equity**. Various **Committees, relevant practices followed and facilities** provided to ensure **gender equality** are listed below.

A. Committees

These committees provide a **platform to raise concerns** and have established **policies and procedures** to establish an **ambience of gender equity**.

- **Gender Equity Cell**
- **Women Empowerment Cell**
- **Faculty Grievance Redressal Committee**
- **Students Grievance Redressal Committee**
- **Anti Ragging Cell**
- **Internal Complaints Committee**

Policies

- **Gender Equity Policy**
- **Grievance Redressal Policy**
- **Human Value And Professional Ethics Policy**
- **Anti Ragging Policy**
- **Safety Policy**
- **Admission Policy**
- **Scholarship Policy**

These cells work tirelessly to **empower the students** through guest **lectures, seminars, workshops**, different **awareness campaigns, and other welfare initiatives** yearly.

B. Safety and Security

- **Internal Complaints Committee** stays alert to prevent sexual abuse towards students and female workers.
- **CCTV** cameras installed at strategic locations for continuous surveillance, heightens security

inside the campus. CCTV footage can be **monitored at the Principal and GM offices.**

- The **vehicle pass system** designed to streamline access to parking areas ensures safe and secure parking.
- Advanced **firewall** system to enhance protection against cyber threats and unauthorized access, ensures the **safety of data and information.**
- **Anti-Ragging and Discipline Committees** safeguard the well-being and rights of students and prevent instances of ragging or misconduct, promoting a safe and respectful campus. **Prompt and timely actions on any concerns reported by students** are ensured.
- **Separate hostel facility with compound wall and resident warden** is provided for girls and women faculty.
- **Security officers** are deployed **24/7** within the **campus and hostels.**
- **College buses** are operational, between college and various destinations for commuting students and faculty members, ensuring **convenient and reliable transportation.**

C. Counseling

Counseling and mentoring services are primarily overseen by women tutors. Additionally, the **full-time counselor** available on campus enhances the extent of support. This commitment underlines the college's dedication to promote students' well-being and academic success.

D. Common Room

Almost every building has **adequate washrooms and common room facilities** for male/female students.

E. Curricular and co-curricular activities

- **Curricular activities:** Institution integrates crosscutting issues relevant to **Gender and Human Values into the Curriculum** through various courses to develop a deeper understanding of gender-related issues, and challenges, promoting empathy and respect.
- **Co-curricular activities:** ASIET organizes **National level techno cultural fest “Brahma”** and tech-fest **“Aswamedha”**, **Arts and Sports days** yearly. Activities organized under various cells and associations of ASIET, also **promote gender equity and inclusivity.** An **International-level ideation challenge;** **"APJ Abdul Kalam Innovation Challenge - Young Scientist Award"** was organized for school and ASIET students, and the winner was acknowledged with a **trip to NASA, USA.**

F. Other relevant information

- **Admission procedures** strictly adhere to the University and Government norms without any discrimination on gender.
- **Administrative** responsibilities and roles are equally assigned among staff without any discrimination gender.

It is also made mandatory to have at least one **Lady Student Representatives in the College Union** from each class.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

7.1.2

The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

| File Description | Document |
|---|-------------------------------|
| Policy document on the green campus/plastic free campus. | View Document |
| Geo-tagged photographs/videos of the facilities. | View Document |
| Circulars and report of activities for the implementation of the initiatives document | View Document |
| Bills for the purchase of equipment's for the facilities created under this metric | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1. Green audit / Environment audit**
- 2. Energy audit**
- 3. Clean and green campus initiatives**
- 4. Beyond the campus environmental promotion activities**

Response: A. All of the above

| File Description | Document |
|--|-------------------------------|
| Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date | View Document |
| Policy document on environment and energy usage Certificate from the auditing agency | View Document |
| Green audit/environmental audit report from recognized bodies | View Document |
| Certificates of the awards received from recognized agency (if any). | View Document |
| Provide Links for any other relevant document to support the claim (if any) | View Document |

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Under the auspices of **The Sringeri Mutt, blessed by Sri Adishankaracharya**, ASIET is devoted to foster an **inclusive and harmonious society**. ASIET encourages students to **organize and participate** in programs hosted **in and out of the campus**. Thus students are **sensitized to cultural, regional, linguistic, communal, and socio-economic diversities**, fostering a spirit of understanding and cooperation in community.

Cultural and Regional Diversity

- ASIET Student Council organizes “**Brahma**”, A **National Techno-Cultural festival** incorporating **technological and cultural competitions**, performances, workshops nurturing **creativity with cultural and regional Diversity**
- “**Thyagaraja Aradhana**” featuring **classical concerts by renowned musicians** from Kerala, held annually in conjunction with Brahma, promotes classical music.
- The prestigious “**Adi Shankara Sangeetha Kalashreshta Puraskaram**” is awarded annually to artists of great renown.
- NSS volunteers participated in the **Republic Day Parade, International youth exchange programs, National integration camps, and International seminars** on “**Ek Bharat - Shreshtha Bharat**”.
- Every year, the **Arts festival, Onam, Christmas, and Navratri festivals** are celebrated highlighting **moral and ethical values**, bringing students together.
- **Students from all over the country are admitted** to various programs.

Socio-economic Diversity

- NSS units and Department associations conduct **social outreach activities** to help the needy people in the society.
- Projects such as “**Homes for the homeless**”, **electrifying homes, medical camps, distribution of food, repairing equipment in government hospitals, blood donation camps, and running awareness programs** promote socio-economic diversity.
- **Student welfare fund** is established to support the needy students.
- **Participation** of students in **NSS and Cells** are encouraged to inculcate social responsibility.

Linguistic and Communal Diversity

- The **College Magazine and Newsletters** showcase the literary talents of staff and students.
- The Student's Council is conducting various activities in connection with **Onam and Christmas programs** to promote communal diversity.
- Major events in college commence with the **Guru Ashtakam** in **Sanskrit**, paying homage to the revered teachers and mentors followed by **college prayer** played in **Sanskrit**, along with the display of translations..
- ASIET offered **German language training** with placements assistance for interested students.
- ASIET Library proudly houses the **Shankara Sara Sangraha**, a dedicated section featuring a comprehensive compilation of the **profound philosophies of Sri Sankaracharya**.
- **Students** participation in **interstate** programs **enables multilingualism**

Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens

- The **fundamental duties outlined in Article 51A of Part IV-A of the Indian Constitution are prominently displayed in the front lobby**.
- National festivals and special days emphasizing the **values, rights, duties and responsibilities of citizens** are celebrated.
- **Awareness campaigns, training and outreach programs**, to inherit human values coping with the constitutional obligations are organized to sensitize the future leaders.
- The programs such as **home renovation, electrification of poor houses, blood donation, flood relief and COVID related activities were conducted to promote duties and responsibilities of citizens**
- Awareness classes on **narcotic abuse, legal education, road safety, traffic rules, prevention of child labour, cyber laws, and significance of adopting plastic-free practices** etc. were conducted.
- A course on “Constitution of India” is delivered to fourth semester B.Tech Students.

| File Description | Document |
|---|-------------------------------|
| Upload Additional information | View Document |
| Provide Link for Additional information | View Document |

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice 1: Excelling in Innovation, Incubation, and Entrepreneurship

Objectives

- Cultivate entrepreneurial culture through research and innovation.
- Conduct innovation and entrepreneurship activities.
- Organize workshops, seminars, and mentor interactions.
- Establish mentorship schemes with entrepreneurs and industries.
- Network with national entrepreneurship organizations.
- Develop products for societal and environmental applications.
- Provide facilities for prototype development and IPR registration.
- Host hackathons, competitions, and challenges with industry collaboration.

The Context

ASIET's Student Entrepreneurship Programme aims to catalyze and accelerate the entrepreneurial journey of young innovators. To promote innovation and entrepreneurship, ASIET has established the Centre for Innovation, Incubation, and Entrepreneurship, which includes a Fabrication Lab, Innovation Entrepreneurship Development Cell, Business Incubation Facility, LEAP Centre, IPR Cell, Institute Innovation Council, and Industry Institute Partnership Cell. These entities offer pre-incubation, incubation, and acceleration programs to stakeholders.

The Practice

ASIET has a startup and innovation policy to promote student and faculty-driven innovations and startups on campus. The IEDC, Adi Shankara TBI, IIC, IIPC, and IPR Cell actively contribute to this journey.

- **IIC:** Fosters a culture of continuous innovation through hackathons, ideation workshops, and innovation challenges.
- **IEDC:** Develops entrepreneurial skills, guiding students in transforming ideas into viable business ventures, with pre-incubation, incubation, and acceleration programs.
- **TBI:** Supports early-stage startups, providing a conducive environment for growth and development, resulting in 12 startups and over 20 commercialized products.
- **Fab Lab:** Encourages interdisciplinary collaboration, enabling students to bring ideas to life through rapid prototyping, with facilities including 3D printing, PCB milling, and more.
- **IIPC:** Bridges academia and industry, providing industrial exposure and organizing industry-collaborative workshops, conferences, and symposia.
- **IPR Cell:** Educates students and faculty on intellectual property, assisting in securing patents,

trademarks, and copyrights.

Evidence of Success

- 10 entrepreneurs, 12 startups, 56 patent applications, 36 industry collaborations, and external funding for product development.
- Young Scientist Awards for school students, with winners sent to NASA.
- Kerala Startup Mission recognized IEDC as a Technology Business Incubator in 2022 and LEAP Centre in 2024.
- Fab Lab received “Top Performer Award 2019-20” from Kerala Startup Mission.
- IEDC received the Entrepreneurship Enabler Award 2018 from Kerala Startup Mission.
- Kerala State Industrial Development Corporation sanctioned a Business Incubation Centre at ASIET in 2019.
- Recognized as an MSME Business Incubation Centre by the Government of India in 2021.
- Best Fab Lab Award in the state in 2019.
- Special recognition for Prof. Ajay Basil Varghese for his contribution to the startup ecosystem.
- Kerala Startup Mission listed Adi Shankara IEDC among the 31 Performing IEDCs in the State on March 8, 2018.
- Prof. Anuroop K.B. selected as the Regional Mentor of Change under Atal Innovation Mission.
- Products developed in the Fab Lab won national event prizes.
- During the pandemic, developed automatic hand sanitizer units, pulse oximeters, ventilator units, etc.

Problems Encountered and Resources Required

Identifying potential entrepreneurs is challenging, as not everyone is suited for entrepreneurship. Although students have innovative ideas and a supportive environment, many opt for employment over entrepreneurship. New government and education policies on student entrepreneurship could help address this issue.

Best Practice 2:Fostering Professional Growth and Student Excellence through Professional Society Chapters

Objectives

- Disseminate and update engineering and technological knowledge among members.
- Facilitate networking, knowledge sharing, and community engagement.
- Advance engineering knowledge through Research and Development (R&D).
- Encourage ethical behavior and professional conduct.
- Assist students in career planning, placements, and internships.

The Context

To realize ASIET's vision of becoming a Center of Excellence in Engineering, Technology, and Management, the Institute enhances student skills through professional society activities, including:

- IEEE Student Branches
- Institute of Engineers (India)

- Computer Society of India
- The Society of Energy Engineers and Managers (SEEM)
- American Society of Mechanical Engineers
- Biomedical Engineering Society of India
- The Robotics Society of India
- International Society of Automation
- Indian Society for Training and Development
- Indian Concrete Institute
- Indian Society of Mechanical Engineers

These chapters provide platforms for students to interact with professionals, participate in workshops, seminars, and conferences, and develop leadership and teamwork skills.

The Practice

The IEEE Student Branch at ASIET, inaugurated in 2011, includes various affinity groups and conducts seminars, workshops, skill development programs, conferences, project exhibitions, and competitions.

The IEI Student Chapter, established in 2018, promotes education and research, facilitates faculty corporate memberships, and provides a platform for students to develop technical, professional, and social skills.

The Computer Society of India (CSI) chapter offers skill development, industry exposure, networking, certifications, research, and community service through workshops, seminars, and conferences.

The SEEM Student Chapter, inaugurated in 2017, focuses on energy conservation and management awareness programs.

The ASME Student Chapter, formed in March 2017, organizes events focused on mechanical engineering.

The ISME Student Chapter, founded in 2016, advances engineering and technological information through workshops, webinars, and competitions.

The ISA empowers the global automation community through standards and knowledge sharing, technical competitions, seminars, training programs, and industry collaboration.

The Robotics Society, started in 2022, promotes student networking and knowledge sharing in robotics.

The BMESI Student Chapter, inaugurated in 2024, organizes conferences, workshops, seminars, and webinars on biomedical engineering.

The ICI Student Chapter, established in 2023, and the ISTD Student Chapter, inaugurated on 2022, conduct seminars, workshops, conferences, and exhibitions.

Evidence of Success

- IEEE Regional Exemplary Student Branch Award (2020, 2021, 2022)

- IEEE Best Student Volunteer Award (2018, 2019, 2021, 2022)
- IEEE Outstanding Branch Counsellor Award (2020, 2021, 2023)
- IEEE Kerala Section Outstanding Student Branch Award 2023 (Special Mention)
- IEEE ComSoc SBC received a grant of US \$480
- IEEE PES High Performing Student Branch Chapter Program (HPSBCP) Award 2022 with a cash prize of \$292
- IEEE Computer Society Outstanding Chapter Award (2019-20)
- IAS CMD Outstanding Member Award 2022 and Outstanding Chapter Chair in Region 10 (2022-23)
- SEEM National Level ‘Silver Award’ in Facility Category (2018)
- Students won prizes in the National Energy Auditing Competition (2018)
- IEI student chapters received grants for projects, conferences, and faculty development programs
- Students received scholarships from IEI
- ASME Student Section Recognition Program funding

Problems Encountered and Resources Required

The semester system necessitates alignment with the university timetable, making it challenging for students to organize and participate in professional society activities due to time constraints.

| File Description | Document |
|---|-------------------------------|
| Best practices as hosted on the Institutional website | View Document |
| Any other relevant information | View Document |

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Molding Professionals with Social Commitment: Empowering Communities and Protecting the Environment.

Objective:

ASIET stands as an embodiment of academic excellence, committed to **servicing society through technology**. The social service cell of ASIET has been pivotal in nurturing young technical minds toward social service since its inception. Inspired by the profound teachings of the revered seer, **Sree Sankaracharya**, the cell engages in the **holistic development of engineering students** through the activities of **NSS, Bhoomithrasena Club, ‘Home for Homeless’, and ‘Vidyuth’** under the **Social**

service cell that nurtures **value-based education**. Its initiatives align with the institute's vision of creating competent professionals with social commitment, ethical integrity, and spiritual values.

Promoting Values:

College life at ASIET goes beyond academics, encompassing understanding social, environmental issues, and societal inequities. All engineering departments actively promote society-oriented projects and undertake consultancy work for local and government agencies, aligned with the institute's vision and mission under the social service cell's guidance.

NSS

A key element of the Cell is its dedication to social service through its **NSS** units, which engage in various community service initiatives in the neighborhood. Established in **2015**, the NSS unit has significantly impacted both the academic community and society at large, promoting intellectual development and a strong sense of social responsibility.

The NSS unit collaborates with various government and non-government organizations, such as the **Directorate of Environment and Climate Change, Shuchithwa Mission, Haritha Kerala Mission, Kerala Excise Department, District administration, Bhumi Club, BIS, and the Tourism Department**, to implement programs benefiting the environment and society. The NSS unit conducts **public awareness campaigns, cleanliness drives, Swachh Bharat programs, medical camps, blood donation drives, charity work, skill development programs, and free online tutoring** to support societal well-being.

The NSS unit, in collaboration with the **engineering departments and professional societies** at the college, has initiated several community service activities including **electrification of houses for the underprivileged, distribution of mid-day meals to needy individuals and residents of old age homes, training programs for school students and village women, library renovations, and river rejuvenation projects**.

The NSS unit and Program Officer were honored with the prestigious **NSS National Award from the President of India in 2021**. The NSS unit, along with its officer and student volunteers, has received accolades at the Directorate of Technical Education, university, and state for their active participation in social service activities, earning various awards for societal and environmental contributions.

Bhoomostrasena Club:

The Bhoomithrasena Club, in collaboration with the NSS, conducts various environmental protection activities. The ASIET community participated alongside the public in **renovating ponds**. Our students support the district administration by **implementing green protocols**. ASIET has actively engaged in the **Swachh Bharat Internship Program** by the Government of India, with activities earning public appreciation. Volunteers dedicated over 100 hours across different local bodies to this program.

ASIET conducts extensive **tree plantation programs** through various projects. The institute is also executing the **Paristhithikam project** under Directorate of Environment and Climate Change, Government of Kerala, to raise public awareness about environmental issues. The Energy Management Center Kerala selected our campus to host **energy conservation awareness** programs within the

Angamaly assembly constituency. The college maintains its natural aesthetics by preserving trees during the construction of the building.

Punarjjani Project:

This project aims to enhance infrastructure in government hospitals, focusing on repairing biomedical equipment, furniture, and electrical appliances, directly benefiting the underprivileged. The NSS unit of ASIET has restored facilities at Government Hospital Mattoor, Government Taluk Hospitals in Angamaly, Chalakudy, and Thrippunithura, and Ayurvedic Medical College, Thrippunithura. As the camp officer for the Mega Punarjjani Camp by the Directorate of Technical Education, the NSS Program Officer of ASIET coordinated restoration camps at Medical College Trivandrum, General Hospital Ernakulam, District Hospital Aluva, and Government Medical College Ernakulam.

Home for the homeless:

The ASIET community came together to **construct new homes for three families** whose houses were destroyed by heavy rain through the combined efforts and contributions of the NSS unit, Alumni Association, staff, and students. Volunteers generously offered their time and services to ensure the project's success.

Collaboration: Expanding Horizons: "Vidyuth"

"Vidyuth" is a social service initiative by the **EEE** department, aimed at **electrifying homes for economically disadvantaged families**. Launched in **2013**, this project has successfully provided **electricity to over 100 homes**, significantly improving the quality of life of individuals. The program continues to make a meaningful impact by addressing a critical need in the community

Response to flood

The college actively engaged in various services during and after the flood in different parts of the state. NSS volunteers and students participated in rapid visual surveys of affected houses in Kalady, Kanjoor, Sreemoolanagaram, and Manjapra Panchayats. They assisted the district administration in conducting **rebuild surveys** in Kalady Panchayat, performed water quality testing in collaboration with Pollution Control Board, **repaired electrical home appliances, inspected house wiring, and repaired generators** in Panchayat offices, markets, and crematoriums of Kalady Panchayat. Students carried out sanitization and cleaning efforts in various locations. Medical camps were organized to meet social commitments, and essential supplies like clothes, food, and cleaning materials were distributed in flood-affected areas of Kerala in 2018 and 2019.

Response to Covid Crisis:

During the COVID-19 pandemic, ASIET made significant societal contributions. ASIET developed and distributed **sanitizer dispenser units** to government institutions, including district administration offices, police stations, hospitals, banks, railway stations, and panchayat offices. To address ventilator shortages, ASIET build a **ventilator system** to Ernakulam General Hospital. ASIET created **software to assist COVID-19 volunteers** in Kalady and Vadakekara Panchayats. The institute's socially responsible activities included **distributing free masks and sanitizers, providing clothing and food to orphanages and old age homes, and donating materials and refrigerators** to First-Line Treatment Centers.

Conclusion:

A defining aspect of the institute’s identity is its naming after the great scholar **Adi Shankaracharya** and its location at his birthplace, adding profound significance as a tribute to the revered seer. The social service cell's activities exemplify the institute's commitment to promoting higher education based on Sree Sankaracharya's ideals while preserving India's cultural heritage and foster intellectual growth and exchange.

| File Description | Document |
|--|-------------------------------|
| Appropriate web in the Institutional website | View Document |
| Any other relevant information | View Document |

5. CONCLUSION

Additional Information :

Over the years, our students have been securing the **University Ranks and awards at several events and competitions**. Our **Women Volleyball team** emerged as the **Champions of the APJ A Kerala Technological University** last year. In the past years, several students were **selected to the University Teams** for the Inter University competitions.

Our award winning **Business Incubation Centre** has served as a platform for the development of several entrepreneurial attempts and many has succeeded; generating a **total revenue of around 3 crores and employment for many**. We are proud to see our students perform well as entrepreneurs too.

Our students are not only **encouraged to participate in cocurricular and extracurricular activities** conducted by peer institutions but also to **organise events** as well. Institute has organised programmes like **APJ Abdul Kalam Innovation Award and Adi Shankara Young Scientist Award and several International and National conferences**. Many other events including an annual **National level, Techno Cultural Fest – Brahma, Cultural fest of the institute – Advaiya, Tech fest - Aswamedha and the Sports meet** are also organised regularly.

The students of the institution were in the forefront of **relief activities during the Flood in 2018 and the Covid 19 pandemic**. Our institute was a **relief centre** accommodating several families. Multiple units of “**Jeeva Vayu**” – a **Ventilator System** developed at ASET were **transferred to the Government Hospital** during the Covid pandemic.

Centrally located in terms of road connectivity, it is adjacent **to the Main Central Road**, just 6 km from Kochi International Airport, and an equal distance to the Angamaly Railway station. It is around 30 kilometres away from the state’s commercial capital, Kochi.

We are committed to **inculcate social values and morals** in students. Keeping this in mind we indulge in **activities augmenting Women Empowerment and Social Welfare**. The **extension and outreach activities of the institute** for the upliftment of the neighbourhood, has given real life experiences to our stakeholders and paved the way in moulding them as **responsible citizens** of India

Concluding Remarks :

Adi Shankara Institute of Engineering & Technology (ASIET) ideally located in a tranquil setting and kindles vivacious memories of the **Serene Presence of Jagadguru Adi Shankara** under whose lineage the college is run. A defining aspect of the **Institute’s Identity** is its **naming after the great scholar and preacher Adi Shankaracharya**. The **Institute’s location at his birthplace**, also adds **profound significance as a tribute to the Revered Seer**. Our social service activities exemplify the institute's commitment in **preserving Sree Shankaracharya's ideals and India's cultural heritage while fostering intellectual growth and exchange** through higher education in science and technology. We continue to imbibe humility and oneness among our students.

We are committed to **promote sustainable development through conservation of nature and exploring**

alternative energy sources. Throughout the journey, though it's tedious we are **committed to uphold and impart the virtues and moral values.** We are also **pledged to develop and maintain a holistic environment for the overall development** of our students and wish that the future is brighter. We **look forward to collaborate more with renowned academic as well other organisations through engagements and activities** that shall lead us ahead and successfully **implement NEP.**

We prepare students for the worldly challenges and believe that the real meaning of education is **not completed merely through the classroom learnings and evaluations.** We shall continue to encourage students to engage in activities beyond the classrooms. **Twenty batches of students** passed out from the institute with flying colours, **occupying coveted and responsible positions in prestigious organizations in India and Abroad** make us prouder. With humble heads, We, the **ASIET Family strive hard** to churn out the best throughout this journey to **academic excellence.**

Om

Saha Nau-Avatu |

Saha Nau Bhunaktu |

Saha Viiryam Karavaavahai |

Tejasvi Nau-Adhiitam-Astu Maa Vidvissaavahai |

Om

Shaantih Shaantih Shaantih ||

May the supreme self protect us all, the teacher and the disciple:

May the Eternal possess and guide us ever:

May we both work together with great energy:

May our learning be thorough and fruitful:

May we have goodwill for all; never any hatred:

Let there be; peace, peace, peace.

6.ANNEXURE

1.Metrics Level Deviations

| Metric ID | Sub Questions and Answers before and after DVV Verification | | | | | | | | | | | | | | | | | | | | |
|-----------|--|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|
| 2.4.1 | <p>Percentage of full-time teachers against sanctioned posts during the last five years</p> <p>2.4.1.1. Number of sanctioned posts year wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>135</td> <td>139</td> <td>145</td> <td>147</td> <td>166</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>127</td> <td>127</td> <td>127</td> <td>127</td> <td>127</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared appointment letters.</p> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 135 | 139 | 145 | 147 | 166 | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 127 | 127 | 127 | 127 | 127 |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 135 | 139 | 145 | 147 | 166 | | | | | | | | | | | | | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 127 | 127 | 127 | 127 | 127 | | | | | | | | | | | | | | | | | |
| 3.3.2 | <p>Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years</p> <p>3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>13</td> <td>34</td> <td>16</td> <td>18</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>8</td> <td>23</td> <td>14</td> <td>2</td> </tr> </tbody> </table> <p>Remark : DVV has excluded those books and chapters are without ISBN no.</p> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 22 | 13 | 34 | 16 | 18 | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 18 | 8 | 23 | 14 | 2 |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 22 | 13 | 34 | 16 | 18 | | | | | | | | | | | | | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 18 | 8 | 23 | 14 | 2 | | | | | | | | | | | | | | | | | |
| 3.4.3 | <p><i>Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.</i></p> <p>3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>19</td> <td>16</td> <td>22</td> <td>29</td> </tr> </tbody> </table> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 26 | 19 | 16 | 22 | 29 | | | | | | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 26 | 19 | 16 | 22 | 29 | | | | | | | | | | | | | | | | | |

Answer After DVV Verification :

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 14 | 12 | 10 | 17 | 23 |

Remark : DVV has excluded days activities.

4.4.1 **Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 346.17 | 250.14 | 80.44 | 199.28 | 175.61 |

Answer After DVV Verification :

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 88.72 | 51.51 | 31.64 | 81.75 | 56.61 |

Remark : DVV has made the changes as per considered only Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities).

5.3.1 **Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years**

5.3.1.1. **Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years**

Answer before DVV Verification:

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 24 | 1 | 3 | 5 | 0 |

Answer After DVV Verification :

| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---------|---------|---------|---------|---------|
| 13 | 1 | 3 | 2 | 0 |

Remark : DVV has excluded shared certificates of excellence and appreciation and participation and merit.

| 5.3.2 | <p>Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)</p> <p>5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 392 1046 524"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>36</td> <td>45</td> <td>36</td> <td>41</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 604 1046 736"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>20</td> <td>30</td> <td>21</td> <td>26</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared report by HEI.</p> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 50 | 36 | 45 | 36 | 41 | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 29 | 20 | 30 | 21 | 26 |
|---------|--|---------|---------|---------|---------|---------|----|----|----|----|----|---------|---------|---------|---------|---------|----|----|----|----|----|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 50 | 36 | 45 | 36 | 41 | | | | | | | | | | | | | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 29 | 20 | 30 | 21 | 26 | | | | | | | | | | | | | | | | | |
| 6.3.2 | <p>Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years</p> <p>6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 1137 1046 1270"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>50</td> <td>81</td> <td>73</td> <td>91</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 1350 1046 1482"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>08</td> <td>41</td> <td>63</td> <td>52</td> <td>85</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared clarification.</p> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 12 | 50 | 81 | 73 | 91 | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 08 | 41 | 63 | 52 | 85 |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 12 | 50 | 81 | 73 | 91 | | | | | | | | | | | | | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | | | | | | | | | | | |
| 08 | 41 | 63 | 52 | 85 | | | | | | | | | | | | | | | | | |

2.Extended Profile Deviations

| ID | Extended Questions | | | | | | | | | | |
|---------|--|---------|---------|---------|---------|---------|--|--|--|--|--|
| 1.1 | <p>Number of teaching staff / full time teachers during the last five years (Without repeat count):</p> <p>Answer before DVV Verification : 241</p> <p>Answer after DVV Verification : 127</p> | | | | | | | | | | |
| 1.2 | <p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="197 2004 986 2085"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | |
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 | | | | | | | |
| | | | | | | | | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| 135 | 139 | 145 | 147 | 166 |
|-----|-----|-----|-----|-----|

Answer After DVV Verification:

| | | | | |
|---------|---------|---------|---------|---------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 127 | 139 | 145 | 147 | 166 |

2.1 **Expenditure excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

| | | | | |
|-------------|-------------|-------------|-------------|-------------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 975.0041568 | 620.3836095 | 329.7592205 | 636.9343523 | 793.3414175 |

Answer After DVV Verification:

| | | | | |
|---------|---------|---------|---------|---------|
| 2022-23 | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
| 705.31 | 512.56 | 300.32 | 522.04 | 483.83 |