INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 1)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF ADHIPARASAKTHI COLLEGE OF ENGINEERING C-16562

Kalavai Ranipet
Tamil Nadu
632506

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

Section I:GENERAL INFORMATION	
1.Name & Address of the institution:	ADHIPARASAKTHI COLLEGE OF ENGINEERING Kalavai Ranipet Tamil Nadu 632506
2.Year of Establishment	2001
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	1
Departments/Centres:	7
Programmes/Course offered:	7
Permanent Faculty Members:	74
Permanent Support Staff:	43
Students:	750
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Proactive management. 2. Good infrastructure and rural ambience 3. Good environmentally friendly practices.
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 24-01-2024 To : 25-01-2024
6.Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. ASOK DE	FormerDirector,National Institute of Technology Patna
Member Co-ordinator:	DR. NARESH PATEL	Dean,FACULTY OF MANAGEMENT AND INFORMATION SCIENCES DHARMSINH DESAI UNIVERSITY NADIAD GUJARAT
Member:	DR. BENNY MATHEWS ABRAHAM	Professor,Albertian Institute of Science and Technology
NAAC Co - ordinator:	Dr. Vinita Sahu	

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

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QlM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QlM	**The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QlM	*Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum*
1.4	Feedback System

Qualitative analysis of Criterion 1
Adhiparasakthi College Of Engineering, Kalavai Ranipet Tamil Nadu was established in 2001 and is affiliated to Anna University Chennai. The college follows the curriculum, academic calendar and regulations prescribed by the affiliating University for its undergraduate and postgraduate programmes. The college prepares its calendar of activities in line with the academic calendar of university. Choice Based Credit System (CBCS) is followed as directed by university. The Head of Department allots the subjects to the teachers of respective department as per their expertise. Teachers prepare lecture plans and course files as per the syllabus in the beginning of semester. The progress in teaching of subjects taught is monitored by Head of Department through meetings held with class representatives and teachers. Student interaction committee comprising of student representatives of all classes communicates the deficiency of any kind and Academic review meetings are conducted by Principal to get feedback. The feedback from the stakeholders is used for improvement in teaching. Continuous internal evaluation of students is carried out as per guidelines of the University. The industrial visits, trainings, internships, and projects are practiced in programmes.

Curriculum delivery is supplemented through on-line courses of NPTEL and video lectures as available. The facilities exist for ICT enabled teaching in the classrooms. Some value-added courses are offered to train students as per contemporary requirements. There is a system of taking offline feedback from different stakeholders.

The cross-cutting issues relevant to Gender sensitization & Human values and Professional Ethics through workshop and guest lecture. Environment and Ecology, Managerial Skills. Industry oriented programmes are offered in collaboration with CISCO. Value-added courses conducted by the departments. Students are also involved in community relevant social activities under NSS and various other initiatives under students' development cell of the college for complementing other initiatives to integrate cross cutting issues. |

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Student Teacher Ratio
2.3	Teaching- Learning Process
2.3.1 QlM	**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**
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QlM	**Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient**
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	*Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website*
2.6.2 QlM	*Attainment of POs and COs are evaluated.* Explain with evidence in a maximum of 500 words
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2
Admission process is carried out as per the rules laid down by state government and affiliating university. The orientation programme is held for newly admitted students. The college has practice of identifying students as slow and advanced learners based on involvement in classroom, performance in sessional exams, and previous School/University exams. Teacher Guardians are assigned to every student for whole duration of the programme. There is practice of holding remedial classes, providing University question bank, and giving personal attention to pass exams to the slow learners. Parents are also informed about student performance by the college. While advanced learners are encouraged to undertake group discussions, NPTEL courses, technical quiz participation, and participate in outside activities. NPTEL Video lectures are available offline in the college laboratories and could be accessed by the students.   The curriculum has certain subjects with laboratory contents, industrial training, internships, and end semester project work for experiential learning.   All Classrooms in use are provided with LCD projectors, and wi-fi facility. Teachers have access to computer facilities for ICT enabled teaching and delivering online lectures. The learning environment is provided through assignments, and access to e-learning resources such as NPTEL and study material, video lectures. Active learning needs to be strengthened through seminars, model presentations, videos and live problems.   Continuous internal evaluation is practiced in the institution as per policy of the University and the sessional marks are awarded based on a mechanism involving student learning assessments at periodic intervals. Attendance of students is monitored by the subject teacher, HODs. Institute has arrangements for handling internal examination related grievances and facilitates University examination grievances with the University as per its regulations. Student performance is used for their counselling as per need.   Program outcomes and program specific outcomes for all programs offered are stated and displayed in departments. The college should initiate practice of outcome-based education.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Innovation Ecosystem
3.2.1 QlM	**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**
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QlM	**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.**
3.4.2 QlM	**Awards and recognitions received for extension activities from government / government recognised bodies**
3.5	Collaboration

Qualitative analysis of Criterion 3

Out of 62 regular teachers 17 teachers hold Ph. D degree. The college have e-yantra lab (-embedded system and robotics lab, supported by eLSI, IIT BOMBAY), CISCO lab and Institution Innovation Council (IIC). Financial support is extended to the deserving students for their models at the Institution Innovation Council. The local entrepreneurs are invited to address and inspire the students. The physical infrastructure, in the form of laboratories, books and journals, required for undertaking research projects needs to be enhanced.

However, some teachers have published a very few papers in journals, contributed to books chapters and papers on a small scale in national conferences. The college requires linkages for faculty exchange, student exchange, internship, field trips, on-the-job training etc. Over the last five years the number of functional MOUs with academic or industrial establishment has been small. A suitable incentive structure needs to be evolved and implemented effectively with a view to motivate teachers to upgrade their academic qualification by acquiring Ph. D degree and to apply for research grants from various government, non-government agencies and industries. Academic audit and performance-based incentives to faculty for research work will certainly motivate them and lead to an increase in their contributions in the form of publications in reputed research journals. Research and industrial consultancy are absent.

The college emphasizes on extension activities which are done through its NSS unit. College has one unit of NSS, serving the community through extension activities as a social responsibility. The college students actively participate and work with local community in neighborhood villages. The focus areas of the extension activities are environmental protection, political awareness, health and personal hygiene consciousness and women empowerment etc. The NSS volunteers under the guidance of Programme officer conduct special camps at nearby adopted village. Blood donation camps are conducted annually. The college organized exhibitions for school children with the help of Satish Dhawan Space Centre SHAR, ISRO, Sriharikota on "Space on Wheels-Mobile Exhibition".

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QlM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QlM	**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.)**
4.2	Library as a Learning Resource
4.2.1 QlM	*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*
4.3	IT Infrastructure
4.3.1 QlM	**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*
4.4	Maintenance of Campus Infrastructure

Qualitative analysis of Criterion 4

The college campus has adequate teaching-learning infrastructural facilities. The institute has adequate number of classrooms mostly with LCD projectors, Seminar Halls, department laboratories, auditorium, and library and internet facility of 400 Mbps including Wi-Fi. Good numbers of classrooms have LCD projectors.

The institution has computer laboratories with adequate numbers of computers for students' usage. The institution has a drawing hall with drawing tables, commodious seminar halls and an AC Auditorium having a seating capacity of 1500 People, which is share by other institutions run by same trust. Common Room and Multi- Purpose Hall are available. The college has hostel facilities for boys and girls on sharing basis.

The college has very good sports facilities on sharing basis with group institution. The college has indoor games such as table tennis, carom, and chess. For outdoor games college has sports ground for games such as Cricket, Volleyball, Foot Ball, Athletic events, etc. The College has gymnasium facilities spread over 2128 Sq.ft.

The library is stocked with more than 24500 books and 7605 titles related to Engineering and Technology. The college have subscribed around 108 printed Journals. Core reference collection of various books is also available. The library has seating capacity of 150 readers.

The library is automated through Integrated Library Management System (ILMS) namely "AutoLib". Digital Library has 40 Computer systems with internet facility. The institution has subscription of DELNET and total 666 e-journals are available.

The CC Cameras are installed in all the corridors, classrooms, office and in necessary places and separate common rooms for boys and girls. The institution is using ERP system in all the administration purpose,

which need to be updated and internalized. Medical facilities are provided on campus and also have medical hospital from group institution.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.4	Alumni Engagement
5.4.1 QlM	**There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services**

Qualitative analysis of Criterion 5
The college has Students Council constituted as per guidelines of university. The training and placement activities are taken care by a faculty member who also extends placement and career guidance. Efforts are required for attracting core companies and reasonably good pay packages for placement and to enhance infrastructure for placement cell.

There is student participation in certain academic and administrative functions through committees namely Anti Ragging committee, Internal Quality Assurance Cell. The student representative must be included in the Women grievance cell, SC/ST Cell, Minority cell, Student grievance cell. The college organizes cultural fest 'CEMIA FEST' every year. Students have also won awards for their performance in outside events.

The institute also organizes its own as well as intercollegiate technical, sports and cultural competitions. The college offers capability enhancement and development schemes for competitive examinations, career counselling, yoga and meditation in a limited way.

The institution has recently registered an Alumni Association. The alumni association needs to have larger participation of alumni and frequent changes in its' office bearers for its effective functioning and contribution for college development. Good number of alumni must be tapped for establishing strong alumni-student connect and take their services for professional enrichment of the students.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QlM	*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.*
6.2	Strategy Development and Deployment
6.2.1 QlM	*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*
6.3	Faculty Empowerment Strategies
6.3.1 QlM	**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**
6.4	Financial Management and Resource Mobilization
6.4.1 QlM	**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)**
6.5	Internal Quality Assurance System
6.5.1 QlM	**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**

Qualitative analysis of Criterion 6
The College has proactive management, and it has been supporting the institution by providing required infrastructure, engaging faculty and staff to achieve its vision. The college is providing quality education at reasonable cost to the students coming from all the sections of the society. Vision and Mission of the college are well defined, in tune with the objective of higher technical education and displayed at prominent places. Governing Body of the college is in place and functions in line with the Vision and Mission. The college development proposals initiate from various department and are processed through stipulated hierarchy of governance. Institution is administered through Principal, but there is limited delegation of financial authority to Principal, and Head of Departments which may be relooked for better disposal. Steps may be taken to encourage the faculty members to do quality research and by providing seed money.

The college has prepared its perspective plan, however the same need to be remodeled in light of fast changing scenario and NEP2020 with the approval of Governing Body along with road map for its execution. The functioning of administrative setup, and various other bodies, service rules, procedures, promotional policies as well as grievance redressal mechanism are in place but need to document and shared with all the respective stake holders. The institution should adopt ERP to the full extent for administrative and academic functions for complete information dissemination and bringing in more transparency and commitment in its all-academic and administrative affairs for effective e-governance.

Welfare measures like EPF and gratuity to the employees, leaves like casual leave, extraordinary leave, maternity leave, bus transport, etc. are extended to the faculty and staff. The college should encourage the faculty members to participate in conferences/ seminars/ workshops, attending FDP by providing financial support. The college has established annual Faculty Performance Appraisal system. There exists a student |

feedback system. College has provided Wi Fi Campus to all the faculty members but need to extend to students across the campus. Reprographic facility is available to all the faculty members. The internal and external financial audit is conducted on regular basis. The college depends on fees collected from the admitted students, however despite these financial limitations, the available resources are utilized optimally. But the college should also explore the possibility of financial resource mobilization from other sources as per their competence and capabilities.

An Internal Quality Assurance Cell is established as per norms but to need to internalize and start taking quality initiatives for research and teaching learning. The institution is also performing internal and external academic audit.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QlM	**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*
7.1.4 QlM	**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)**
7.2	Best Practices
7.2.1 QlM	**Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual**
7.3	Institutional Distinctiveness
7.3.1 QlM	**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

Qualitative analysis of Criterion 7
The college provides safe and secured environment to students through CCTV surveillance, walled campus, single point entry, and security guards. The college supports socially and economically disadvantaged students. Equal opportunity and representation are given to girl students in activities like NSS, sports, games, extracurricular activities, and placements. Some programmes have been conducted on women empowerment, women's rights etc. The college has Internal Complaints Committee to take care of gender issues. The college has installed 240 KW roof top solar power plant, some LED lighting for energy conservation. The campus is green and well maintained and natural ambience and in green practices include plantation of trees. The college regularly organizes national festivals and birth / death anniversaries of the great Indian personalities. The college has its own rules of functioning which are in tune with the norms of the University as applicable. The college functions as per the managerial hierarchy and through various committees and cells constituted for addressing concerned matters or issues. It has various cells like SC/ST Cell, Grievance redressal Cell, Anti –

Ragging Cell, Women Empowerment Cell, Sexual Harassment Redressal Cell. Principal, Vice-Principal, Head of Departments, are managing the affairs of the college. Decentralization and delegation of powers in functioning may be relooked.

The first best practices claimed by the college include, "APCE learning management system (alms) to improve result" The main objective is to measure effectiveness of the learning progress and achievement of the student, to measure student progress towards stated improvement goals and track their academic performance and to identify slow learner and advance learner at every stage.

The second-best practice is 'Water Conservation'. Conservation of water is highly important, and the college plays a major role in preserving it. The college practice water conservation through activities like, created 12 farm ponds/percolation structures for rainwater harvesting, 8 Rainwater harvesting systems in buildings, two Sewage Treatment Plants (STP). Treated water is being used in agricultural practice in and around the campus. The rainwater from ponds are used for Agricultural purposes.

The distinctive activities are Green Cover of campus. A green cover helps in reducing the CO_2 levels in and around the vicinity of the campus. Events related to green practices are organized through students' associations and NSS.

Section III:OVERALL ANALYSISbased on Institutional strengths.Weaknesses,Opportunities & Challenges(**SWOC**)(**up to 500 words**)
Overall Analysis

Strength:

·   Adequate teaching-learning infrastructure

·   Good green initiatives

·   Effective curriculum delivery as per the academic calendar

·   Good faculty and staff retention

·   ICT enabled classrooms.

·   Good sports facilities

Weaknesses:

·   Absence of research ambience

·   Communication skills of the student's

·   Lesser number of faculty with Ph.D. degree

·   Insufficient linkages with industries and premier institutions

·   Less number of quality research publications and research projects

- Lesser number of PG programs

- Inadequate technical extension/outreach activities

- Quality Placement in core engineering discipline

Opportunities:

- Industry-Institute interface

- Proximity to industry hub of the country

- Incubation centre with multidisciplinary facilities

- Start PG programmes in the emerging areas of engineering and technology.

- Research activities with sponsored research projects.

- Offer quality improvement scheme for faculty in collaboration with premier institutes for higher qualifications.

- Customized technical training on latest advancements to the working professionals from nearby region

- Industry exposure to the faculty in core and upcoming engineering disciplines

- Encourage students for entrepreneurship

Challenges:

- Declining students enrollment in core branches of engineering.

- Qualification and knowledge upgradation of the faculty

- Enhancement of communication skills of students

- Integration of innovations with startup activities

- High package offering Industries for the placement of students from core engineering disciplines.

- Industry oriented relevant innovative programs and skill development

- Keeping pace with recent technological advances.

- Motivating faculty members for good research output Improving consultancy and R &D activities

- Strategic collaborations with prestigious organizations and institutions in India and abroad

Section IV:Recommendations for Quality Enhancement of the Institution
(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Research and innovation culture be imbibed in the institute and amongst faculty members to mobilize research fund through research projects.

- Improve quality of research outcome and encourage faculty for pursuing Ph.D.

- Strengthen Industry institute interaction.

- Fully functional multidisciplinary incubation centre with facilities for housing incubates.

- Language lab with option of more languages be introduced.

- Career counselling and Placement Cell be strengthened.

- Improve quality of classroom teaching, more value added/add-on courses, job-oriented skill development trainings, and set up NCC unit.

- Resource generation by consultancy, testing, and outreach activities

- Invite high package offering Industries for the placement of core disciplines.

- Strengthening internal quality assurance mechanism to enhance performance of both academic & administrative processes and human resource.

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

Signature of the Head of the Institution

Seal of the Institution

Sl.No	Name		Signature with date
1	DR. ASOK DE	Chairperson	
2	DR. NARESH PATEL	Member Co-ordinator	
3	DR. BENNY MATHEWS ABRAHAM	Member	
4	Dr. Vinita Sahu	NAAC Co - ordinator	

Place

Date

Sl.No	Name		Signature with date
1	DR. ASOK DE	Chairperson	
2	DR. NARESH PATEL	Member Co-ordinator	
3	DR. BENNY MATHEWS ABRAHAM	Member	
4	Dr. Vinita Sahu	NAAC Co - ordinator	