



**INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)**

Accreditation - (Cycle - 1)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
EXCEL ENGINEERING COLLEGE**

**Namakkal
Tamil Nadu
637303**

**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:	EXCEL ENGINEERING COLLEGE Namakkal Tamil Nadu 637303	
2.Year of Establishment	2007	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:	1	
Departments/Centres:	6	
Programmes/Course offered:	18	
Permanent Faculty Members:	175	
Permanent Support Staff:	133	
Students:	2344	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Good Physical and Academic infrastructure facilities. 2. 4 UG programmes has got Accredited by NBA and Institute recognized by UGC under sections 2(f) and 12(B) Recognized research center by Anna University. 3. Well implemented teaching learning processes.	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 25-03-2019 To : 26-03-2019	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. NARASIMHA REDDY DAGGULA	Director,CR RAO AIMSCS
Member Co-ordinator:	DR. PRATOSH BANSAL	Professor,INSTITUTE OF ENGINEERING AND TECHNOLOGY DEVI AHILYA VISHWAVIDYALAYA
Member:	DR. ASHIM DEY	Professor,NATIONAL INSTITUTE OF TECHNOLOGY
NAAC Co - ordinator:	Dr. K. Rama	

Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrics 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)

Criterion 1 - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion 1)	
1.1	Curricular Planning and Implementation
1.1.1 QIM	The institution ensures effective curriculum delivery through a well planned and documented process
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum
1.4	Feedback System

Qualitative analysis of Criterion 1

College is affiliated to Anna University, Chennai and all the UG, PG and PhD programs are followed with the curriculum and syllabi framed by the University. Calendar is prepared at the beginning of each semester with schedule of internal assessment and university examinations. Department calendar is also prepared that includes department activities such as guest lectures, seminars, workshops, symposiums, conferences, activities of various clubs, industrial visit/training, value added courses etc. HODs and Academic and Teaching coordinators regularly monitors the delivery of curriculum. Formal and informal feedback being taken from the students in a regular interval to monitor course delivery and syllabus completion. Class committee meeting is arranged where students' representatives express their difficulties in the academic and administrative issues.

Cross- cutting issues relevant to Gender, Environment and Sustainability and Human Values into the Curriculum according to syllabus and content is delivered. Online feedback is being collected from all stakeholders.

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

Qualitative analysis of Criterion 2

Student's assessment is done after the admission in first year on their performance in secondary school education and their medium of study. Based on this the student academic gap is identified and bridge courses are conducted for English, Mathematics, Physics and Chemistry. Also bridge courses are conducted for international students. Lateral entry students are assessed based on their performance in diploma course. Based on their score, academic gap is identified and bridge courses are conducted for Mathematics and fundamentals of courses chosen in their respective program. To bridge the curricular gap teaching learning processes are supplemented through value added courses.

The students of higher semesters are divided into slow and advanced learners based on their performance in internal assessment examination and participation in academic and non-academic activities. After the first assessment, slow learners are identified and special/ evening classes are conducted.

The advanced learners are encouraged to participate in various National and International level events. They are guided to take part in developing innovative projects through Technology Business Incubator (TBI), Entrepreneurship Development Cell (EDC) and Institution Innovation Council (IIC) and promoting for participation in Seminars, Workshops and Industrial trainings. Also, they are further motivated to publish their project work in Conferences, Journals and Project Expos.

Faculty members uses demonstration model during their course delivery to explain the complex system. Peer

groups formed to take up seminar, case study and assignment. Role Play/Quiz/Brainstorming/Gaming is practiced for students to understand and implement the concept. Students are encouraged to participate in Workshop, Seminars, design and coding contests, and Ideathon and Hackathon events. Innovative ideas of the students are presented in the conference and published in the journal.

The students are motivated to submit their creative and innovative project proposals to various funding agencies like TNSCST, FAER, DST, ICAR, ICMR etc.

The institution follows the evaluation procedure prescribed by the affiliating University. The question paper pattern for internal assessment examination (IAE) is similar to the University question paper. Performance in IAE is informed to the students and parents immediately after the assessments. Both IAE marks and attendance are uploaded periodically in the Anna University web portal. IAE system is ICT enabled.

The institute is affiliated to Anna University and follows the guidelines of the university in conducting the internal assessment examinations.

Institution adheres to the academic calendar for the conduction of continuous internal examination.

The institute have defined Programme outcomes, Programme specific outcomes and Course outcomes for all Programme offered by the institution and it is displayed on website for teachers and students communication.

Institute evaluates attainment of program outcomes, program specific outcomes and course outcomes and strongly follows Outcome based Education. 04 Programs are also having accreditation from NBA.

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

Qualitative analysis of Criterion 3

Eleven teachers are recognised as research supervisors. However, the quality of research outcome and focus on research needs improvement.

Consultancy services in the Institute need improvement along with development of suitable mechanism for seeking consultancy assignments. MTech/MPhil teachers should be encouraged and facilitated to enrol for Ph.D. and pursue doctoral research. Institution provides registration fee to the faculty to attend the conferences/seminars/workshops.

College actively organize various extension activities such as blood donation camps, saplings plantation, environmental awareness programmes, medical awareness camps, free health check-up, Science & Technical Exhibition and Educational Guidance and Exhibition (EDGE) programs and Swatch Bharat activities. Also college organizes vocational training such as air conditioner service, welding and motor cycle repairing, computer education, water testing and analysis for the society also.

College have also started skill development programs under PMKVY. Tree plantation organized by in association with Rotaract Club is one of the outreach program undertaken by the students. They planted over 10000 saplings in college campus and in nearby areas by organizing tree plantation camps. Guinness world record of “Largest Human Image of a Banyan Tree (national tree)” with 5284 students has been created institution’s Rotaract club in collaboration with Rotary international District-2982 and Rotary Club of Komarapalayam.

Rotaract Club of Excel Engineering College participates in the “Mahadan Blood Donation Camp”. Institution outreaches nearby government and aided schools to give them lessons on computer education, health and sanitation in schools.

College has donated multimedia speakers to 60 schools around. Also provided study materials to 10th & 12th standard students of Government schools to secure high marks in the public examination. The institution have collaboration with 29 industries/agencies.

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

Qualitative analysis of Criterion 4

The Institution has adequate infrastructural facilities for teaching-learning process. The Institution has enough class rooms around 48 in numbers; some are equipped with LCD projectors. In addition there are 6 class rooms with smart board facilities. Each department is provided with a tutorial class rooms. The institution has seven seminar halls/conference halls with AC facilities. UPS and Generators are provided for uninterrupted power supply to the academic departmental blocks. Sufficient number of laboratories are available to meet the curriculum of the university. HODs rooms are attached with a departmental office and a departmental library. Each engineering faculty is provided with a desktop with internet facility.

The Institution has sufficient number of outdoor game facilities where students can play outdoor games like football, volleyball, cricket, badminton, shuttle badminton etc. Two well equipped basketball courts as per international standards are present. Facilities are also provided for indoor games like table tennis, chess, carom, etc. Hostels are equipped with gym facilities. The management encourages the students to participate in the Yoga activities.

The Institution has a well-equipped library. The average number of walk-in per day is good. Library system is fully automated with Autolib 5.1 The library is facilitated with IEEE, DELNET, MAT, CLARO and NDL Membership. Library has good number of Journals, however National/International SCI journals are to be added.

The institution provides IT services like Campus networking using the wired and Wi-Fi connectivity. The institution provides 100 Mbps bandwidth and a secured network by implementing Institutional IT security policies. Sufficient numbers of computers are provided to the departments and Administration. The Institution has a separate system department which takes care of the Computer and Networking maintenance. Building maintenance cell looks after repairing and maintenance of the campus facilities. However the infrastructure maintenance needs to be attended in much focused way.

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

Qualitative analysis of Criterion 5

The Institution encourages the students to participate in the Co-curricular and extra-curricular activities. Different committees like class committee, Library committee, hostel committee, grievance and redressal committee, anti-ragging committee, women's empowerment committee, etc are formed with adequate number of student representatives. The students take active part in different sports and cultural competitions organised by the Institution. Different student committees are created to motivate the leadership skills. A system is implemented to monitor the progress of the students. Students also participate in various academic related committees and express their academic requirements.

The Institution has an Alumni Association which is initiated for registration. The Alumni Association meets annually and helps in connecting the student's fraternity, organizing social events and helping in placement opportunities. Alumni entrepreneurs are invited to deliver encouraging speeches to the outgoing students. The feed backs of Alumni are used to develop the institution in a positive direction. Financial contribution from the alumni has to be improved.

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

Qualitative analysis of Criterion 6

The Institution has a committed management having strong focus on growth and development of the institution. Organisation structure is adequately defined. The Chairman and the Vice Chairman are the two pivotal persons in the organisation. They take very active role on the overall development of the Institution. Academic staff are encouraged to take initiatives in academic and academic support systems. The process of awards and rewards based on the performances exists. Every faculty irrespective of his / her seniority / department / discipline is encouraged to undergo periodic training / development programs for their career development. However more efforts are required in this regard. The Management allocates funds for the conduct of academic programmes, library enrichment and other extra co-curricular activities. The management of the institute has policies for the welfare of the students, teachers, and supporting staff for schemes such as ESI, Group Insurance, Gratuity provision and medical facility. The employees of the institutes also covered the provision of the PF act.

The Principal has democratic setup having both the HODs, and faculty member in-charge of different cells/ centres. Autonomy is given to the Head of the Departments and Department Examination coordinator to conduct the Internal Assessment Examination/Evaluation at the Department level. The institute has different committees such as admission committee, counselling cell, placement cell, etc. The performance of the faculty members and supporting staff is obtained through feedback from the students and parents. However, this has to be analyzed in much effective way. The Institute is mainly depended on the tuition fees of the students. The institution needs to focus on resource generation through consultancy, sponsored project, testing and conduction of short-term courses etc, Thus, there is a need for the resource mobilization from other sources. The strategy for financial resources mobilisation needs more attention. To organise seminar and conferences in the institute fund mobilization through sponsorship has to be done. However, the management provides several facilities to its teaching and non-teaching staff members like accident insurance, fee concessions to the wards, maternity leave to the lady staff, free medical consultation, etc. The Institute has created IQAC cell which is entrusted with preparation of academic calendars, formulation of upgradation of academic quality.

The Institution has developed some incremental improvements during the preceding five years namely recruiting adequate number of faculty members with Ph.D. degree, encouraging existing faculty members to undergo Ph.D. work under the supervision of the Ph.D. degree holders, getting NBA accreditation of four UG programs, permanent affiliation to 4 departments (Mechanicel, Aero, CSE and ECE) by Anna Univesity, acquiring Anna University Research Centre approval for the departments of ECE, Mech and CSE, obtaining 12B status from UGC, etc.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.2 QIM	<p>1. Institution shows gender sensitivity in providing facilities such as:</p> <ol style="list-style-type: none"> 1. Safety and Security 2. Counselling 3. Common Room
7.1.5 QIM	<p>Waste Management steps including:</p> <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • E-waste management
7.1.6 QIM	Rain water harvesting structures and utilization in the campus
7.1.7 QIM	<p>Green Practices</p> <ul style="list-style-type: none"> • Students, staff using <ol style="list-style-type: none"> a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants
7.1.18 QIM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QIM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QIM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QIM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7

Respect and gender sensitivity is achieved by conducting various sensitization campaigns, training program, workshop etc. Institution has more than 40% of female faculty members, lady attendants and sweepers. Each department has a complaint box for the grievances to be redressed. Suggestions and grievances are posted in through mail also.

Ladies hostel is housed inside the campus with vigilant security guards round the clock to maintain the safety and security of girl students. Institution has a hostel committee to deal with the safety and security of inmates.

The safety norms are displayed on notice boards. The warden calls the parents for permitting their wards to go outside for attending programs or native place. Permission letter is duly verified by the faculty advisor and HOD.

The institution runs buses in various routes for day scholars. Transport is provided to the students those who are involved in various curricular, co-curricular and extra-curricular activities beyond the college hours. For industrial visits, excursions and study tours, both genders of faculty members accompany the students to take of their needs.

Institution provides transportation and lady faculty members when girl students participate in the events outside the campus. Parents' permission is sought by the department if a girl student participates in the activities outside the campus. The College premises, laboratories and corridors are under CCTV surveillance to ensure effective safety of the students.

Internet is available to the students and staff on basis of 24x7 and systems are protected with TACITINE firewall and McAfee antivirus software. Hostel students can avail WiFi facility around the campus after getting permission from authorities.

Counseling Mentors are allocated to the students to counsel their academic and personal problems to create fearless environment. Counseling is given to the students during mentor hour and after college hours. Common Rooms and medical care Common rooms are available for both boys and girls. A doctor and nurses are exclusively available during the college hours to attend the student's health problems.

Waste management systems are in place. Vermi composting is also done for organic waste. E-waste generation is reduced by buy back system in which the out-dated systems are returned to the company from where they were purchased. Liquid effluent treatment through Sewage Treatment Plant and the treated water is used for gardening, cleaning etc. The College has veryh good rain water harvesting infrastructure.

Institute has Green practices like No plastic zone, staff and student using public transport. Battery operated electric vehicles ensure a pollution free campus. Pedestrian crossings are marked inside the campus to ensure safety.

Institute has beautiful green campus and regularly tree plantations are carried out by NSS and various clubs. The college uses LED for Energy savings. 300 KW Solar Power Plant is installed in the campus. Lift is provided in the main building.

Institute organises birth days of great personalities like Mahatma Gandhi, Sarvapalli Radhakrishnan, Dr. Ambedkar, Mokshagundam Visvesvaraya and National celebration on 15th August and 26th January and other festivals. International Yoga dayis also being celebrated on 21st June.

College adheres to the guidelines compiled by the governing council and administrative committee to make the expenditure every year by proposing the budget including salary, purchasing of new equipments, calibrations, maintenance, service, new constructions and implementation of new ideas. The college fee is collected as per the guidelines of Anna University, Chennai. The institution ensures transparency in its financial transactions by switching over to online payment portal. It also hosts the organizational manual on the website and communicates the attendance and performance in IAE though electronic reports. Transparency is maintained in internal assessment and answer booklets after evaluation are shown to students.

The institution follows two best practices:

Outcome Based Education (OBE) in Teaching-Learning Process - Calculation of the PO attainment to understand the success of teaching-learning process and to increase the students involvement in the learning process. OBE is practiced in each department to understand the attainment of Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Industry Explorer Program - Being conducted every year to impart the Engineering skill expected from the industries, to bridge the gap between the industry and academia and to make the students job-ready by the end of the program. Students are exposed to industrial expectations to focus on the real time skill set. Performance has improved in campus placement.

NAAC

Section III: OVERALL ANALYSIS based on Institutional strengths, Weaknesses, Opportunities & Challenges (SWOC) (up to 500 words)

Strength:

Institutional strength:

The institute is located in the rural area of Namakkal district, TamilNadu in 10.21 acres. The students diversity is good. Total 276 foreign students are admitted and students from other states 402. The institute is implementing good mentoring system, each faculty mentoring 15-20 students. The institute is having collaboration with industry and offer Value Added Courses and Certificate Courses for UG and PG .The institute also initiated collaboration with British English Council (BEC) and offers communication skills for both students and faculty members since last 4 years.

Strength

- The institute is recognized by UGC under 2(f) and 12(B).
- Four programs (AERO, CSE, ECE and MECH) are accredited by NBA in 2018.
- Four programs (AERO, CSE, ECE and MECH) are accorded permanent affiliation by Anna University and three departments (CSE, ECE and Mech) are recognised research centre of Anna University.
- Good infrastructure facilities and Eco friendly Campus.
- Student Support Systems are good including hostel, canteen, sports and games.
- Institute is having Industry collaborations for value added courses and Certificate Courses.

Weakness:

- Most of the students come from rural background and communication skills are poor.
- Resource Mobilization only through Tuition Fee.
- Shortage of senior level faculty.
- Job opportunities are limited in core companies.

Opportunities:

- Empowering faculty for knowledge enhancement through FDP/ Workshops.
- Student's participation in internship and project work in industry.
- Career counseling and innovation, incubation, entrepreneurship for students.
- Enhancing employability skills and bridging gap between industry needs and curricula.

Challenges:

- Implementing soft skill program for faculty and students in effective manner.
- Resource Mobilization through Alumni, Trust and Philanthropists.
- Addressing societal needs through extension and outreach programmes.
- Sponsored research and consultancy and motivation of faculty.

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)

- Online feedback analysis for stake holders to be strengthened.
- Faculty incentives and good pay package for attracting qualified and competent faculty
- Experienced and competent faculty to be recruited at senior level
- Efforts are needed for getting sponsored (R&D) projects through various government agencies
- Enhanced placement offering with good package and encouraging students to industry internship and projects
- Resource mobilization and setting up technology incubator, innovation centers
- Institutional autonomy for implementing flexible curriculum and CBCS system
- High impact publication in peer reviewed journals and award of patents

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. NARASIMHA REDDY DAGGULA	Chairperson	
2	DR. PRATOSH BANSAL	Member Co-ordinator	
3	DR. ASHIM DEY	Member	
4	Dr. K. Rama	NAAC Co - ordinator	

Place

Date

NAAC