



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

**Accreditation - (Cycle - 1)**

**PEER TEAM REPORT ON  
INSTITUTIONAL ACCREDITATION OF  
CHOUHARI ATTARSINGH YADAV MEMORIAL TRUST SIDDHANT  
COLLEGE OF ENGINEERING, SUDUMBARE**

**Pune  
Maharashtra  
412109**

**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:	CHOUDHARI ATTARSINGH YADAV MEMORIAL TRUST SIDDHANT COLLEGE OF ENGINEERING,SUDUMBARE Pune Maharashtra 412109	
2.Year of Establishment	2005	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	5	
Programmes/Course offered:	9	
Permanent Faculty Members:	76	
Permanent Support Staff:	104	
Students:	664	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Visionary management to serve the needs of society in rural area 2. Dedicated faculty members 3. Hindi Linguistic Minority Institution.	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 23-08-2018 To : 24-08-2018	
6.Composition of Peer Team which undertook the on site visit:		
	<b>Name</b>	<b>Designation &amp; Organisation Name</b>
Chairperson	DR. KUMAR VELLANKI	FormerVice Chancellor,JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Member Co-ordinator:	DR. SHYAMLAL SONI	Director,NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND
Member:	DR. D R BHASKAR	FormerProfessor,JAMIA MILLIA ISLAMIA
NAAC Co - ordinator:	Dr. Devender S Kawday	

## 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

The Siddhant college of Engineering lies in picturesque environment located in the vicinity of Asia's biggest industrial belt close to city Pune. The college runs five UG programs namely, Mechanical Engg, Computer Engg., Information Technology, Civil Engg. and Electronics and Telecommunication Engg., besides five PG programmes viz. Computer Engg, Mechanical Design, Digital systems, VLSI and Embedded Systems and Information Technology. The institute also offers diploma course in Civil Engg., Mechanical Engg., Computer Engg. and Electronics and Telecommunication Engg. The College is a recognized as linguistic minority (Hindi) Institution. The college has got a very good infrastructure facilities. Some of the class rooms are equipped with modern visual aids to take full advantage of digital learning material available online. Some of the faculty members are contributing books/ research papers in National and International Conferences/ Seminars/ Journals. The Institution has signed several MoUs with industries to facilitate learning beyond syllabus. Management provides opportunities for students to enhance their co-curricular and extra-curricular activities. The College permits financially weaker students to pay tuition fee in instalments. The institution has IQAC which is involved in faculty appraisal. The academic activities at the department level are coordinated by the respective HODs who conduct regular meetings to track the progress of the delivery of the curriculum. The college does not have academic flexibility to introduce new courses and phase out old courses since it is affiliated to SPPU.

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

Orientation program for fresher's is organized and given brief introduction about syllabus, internal assessment system, quality enhancement programs like training from experts, guest lectures, examination scheme of SP Pune University. Extra practical/classes are arranged for slow learners. Students are advised to participate in innovative projects to take part in national level competitions. Expert's lectures are arranged from Industrial to make aware of recent technologies. Most of the faculty is having PG qualification. The PhD qualified faculty is very less. Most of the faculty is recently recruited including the Director. Teachers are allowed to attend conferences/ workshops by paying registration fee. Teachers use student centric methodologies like problem based learning, interactive learning, experiential learning. Students learn through making small projects/modules. Assessment tests comprise a variety of modalities, including individual and group exercises, quizzes, open book tests, simulations, viva-voce, visual presentations and case discussions. Continuous internal assessment 25/50 marks of students is carried out and it includes two internal tests, regularity in attending theory and practical classes, regularity in submission, viva and presentation of practical journal. Assignments are given to students and oral on assignments are conducted. A Central Examination Officer is appointed for conducting all SPPU examinations by the University. Institute academic calendar is prepared as per the Affiliating University and is displayed on notice boards and college website. The affiliating University (SPPU) has made POs, PSOs and COs and the same are followed by the College. Course outcomes are assessed through direct and indirect assessment methods

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

Four teachers are recognized as research guides and some projects are there, funded by government agencies. Only one Ph.D. has been awarded in last five years and three publications were made in refereed journals. Teachers have also contributed in books, chapters and papers on a small scale in national and international conference. Faculty members have contributed some research papers in conferences and a few of them are the members of editorial board of journals. One teacher has received Young Scientist Award. Interdisciplinary research has recently being started by History, Geography, Commerce and Economics Department. Structured mechanism of consultancy in other departments needs to be developed. The faculty needs to be familiarized the intellectual property rights. The college should have formal inequalities which will help the students with innovative ideas and entrepreneurship. Non Ph.D. teachers should be encouraged and facilitated to enroll for Ph.D. and pursue doctoral research. Teachers with Ph.D. are motivated to take up research scholars and receive research grants from various government agencies and industries. Performance based incentives to faculties for R and D work will certainly motivate them and will increase in their contributions to publications and book writing. Major extension activities are done through NSS and NCC. The college has some linkages for faculty exchange, student exchange, internship, field trip, on-the-job training etc. during the last five years. The college has 3 functional MOUs the state of research and innovation in the college needs improvement. It has established relationship with district hospital pathology department and Red Cross for the medical assistance. Extension activities creating social awareness about social evils and moral values are carried out by staff and students.

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 College has language lab and other laboratories along with the lecture rooms in the premises. However these facilities are not sufficient. More class room in very soothing ambit is required. LCDs, Net, interactive boards, display boards, reprographic facilities and different educational software's are provided to various departments. Hostel facility exists for boys and girls sharing with other colleges in the campus. The institute provides facilities for both indoor and outdoor games to the students and has a gymnasium equipped with all the standard equipment. Various functions like fresher's parties, farewell functions, yoga day, and celebration of festivals, are held in college Auditorium having capacity for around 500 persons. Library services are partially automated through Library Integrated Management Software Autolib version 1.0.0, library material are bar-coded and issued by using Autolib software. The library has good collection of books, journals, Magazines, Newspapers, CDs. As on date library holds the collection of 20614 books, 74 Printed National & International Journal, 4623 E-journals, and 1300 CD's. The College has 617 PCs with LAN and limited Wi-Fi facility with bandwidth of 50 MBPS. Faculty members are provided individual cabins. The College allocates sufficient funds for regular maintenance of college facilities.

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

Siddhant College of Engineering (SEC) is having various clubs. The objective is to encourage and motivate the students in co-curricular and extra-curricular activities apart from academics. The students participate in intercollegiate competitions, conferences, and workshops. The college organizes technical symposium like SPANDAN TECHNOSAV to motivate students to participate in technical and non-technical events. In addition, NSS team of the Institute organizes programs on environmental pollution, blood donation, HIV/AIDS awareness Physical fitness programs etc. The registered alumni association exists. The alumni are visiting the college for guiding the students about recent trends in industries and skill enhancement programs and share their experiences. They are working for strengthening of the network of alumni of this institution who are serving in different parts of the world. There is a placement cell existing and the cell trains the students on aptitude tests and conducts Group Discussions and mock interviews.

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 Chaudhary Attar Singh Yadav Memorial Trust was established in 2005 and has strong vision for social transformation of masses through education, training, and research. The Governing Body (GB) meets once in six months and takes policy decisions based on the demand of business world. The chairman of the trust is willing to serve the rural society and economically weaker sections. The Head of the Institution is a well-qualified person and is a visionary. Dedicated faculty are available for the development of the college, however they have to improve their qualifications. The different committees are existing for effective implementation of policies laid by the GB. SCE is having perspective plan under the leadership of Head of the Institution. The SCE is working towards attaining needs of the industry expectations. The SCE is having the membership of professional bodies and professional competency is developed through various activities at Institutional level. The management constantly encourages the teachers to attend FDPs and provide necessary financial support for the same by paying the registration fees. The IQAC is existing in the college and needs to be strengthened by involving more faculty members from the departments to collect the academic data and



analyze it for the betterment of the institute. Internal and external audit of the institute is conducted on regular basis. The staff are to be provided with EPF and Group Insurance benefits. Pedagogical training may be conducted from time to time.

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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"> <li>1. Safety and Security</li> <li>2. Counselling</li> <li>3. Common Room</li> </ol>
7.1.5 QIM	<p>Waste Management steps including:</p> <ul style="list-style-type: none"> <li>• Solid waste management</li> <li>• Liquid waste management</li> <li>• E-waste management</li> </ul>
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"> <li>• Students, staff using <ol style="list-style-type: none"> <li>a) Bicycles</li> <li>b) Public Transport</li> <li>c) Pedestrian friendly roads</li> </ol> </li> <li>• Plastic-free campus</li> <li>• Paperless office</li> <li>• Green landscaping with trees and plants</li> </ul>
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

The institute is having women counselling committee to solve the problems of women including the challenges experienced by them. The management is open to suggestions given by the staff and uses it for improvement of the institute. The leadership is willing to sponsor the faculty to conferences and workshops to upgrade their skills. Anti-ragging information is also displayed prominently. Blood donation camps, cleaning drives and anti-plastic campaigns are organized. SCE has rain water harvesting system and constructed underground storage tanks to increase ground water table. It will store water and the water is utilized for the

entire campus and reduced the dependency on local gram panchayat for water supply for its awareness. SCE hastaken steps for better environment and seminars are organized NSS plays a vital role by conducting special activities such as tree plantation camps in neighbouring areas and Swatch Bharat Abhiyan arranged in rural areas to increase awareness about cleanliness etc. Students admitted to SCE are from rural and low income group and the management provides personality development programs and skill development programs.

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

**Strength**

**Strength**

- Adequate physical infrastructure exists
- Visionary leadership
- Sports facilities
- Young and dynamic faculty.
- Mentor – mentee system

**Weakness**

- Less number of senior faculty and Ph.D holders
- Faculty retention is less
- First generation graduates taking admission
- Less R & D

**Opportunities**

- The college is situated in rich industrial belt, the students can get good industrial training.
- Continuous enhancement of Industry- Institute partnership.
- Tap government funding which can support R & D activities
- Tap and start skill initiative programs of GoI

**Challenges**

- Low admission
- English language Barrier leading to low employability
- Improvement of soft skills, since it is Hindi based belt.
- Enhance the Consultancy work

#### **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)

- Faculty should be encouraged to upgrade their qualifications and skills.
- The Institute should conduct orientation programs for entry level faculty.
- Faculty should be given training on subject domain.
- The labs should be upgraded beyond curricular requirements in phased manner and low cost / open source software should be used for state-of-art
- MoU should be organised for use of Library resources from nearby reputed institutes.
- Use of E-Shodh Sindhu and DELNET facilities and various schemes providing e-journals should be explored.
- Self-appraisal of faculty and staff should be effectively implemented.
- Alumni relations need to be strengthened.
- Activities of IQAC to be strengthened for proactive decision.
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**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. KUMAR VELLANKI	Chairperson	
2	DR. SHYAMLAL SONI	Member Co-ordinator	
3	DR. D R BHASKAR	Member	
4	Dr. Devender S Kawday	NAAC Co - ordinator	

Place

Date

NAAC