INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 1)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
SRINIX COLLEGE OF ENGINEERING
C-30133

BALASORE
Orissa
756001

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:	SRINIX COLLEGE OF ENGINEERING BALASORE Orissa 756001
2.Year of Establishment	2009
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	1
Departments/Centres:	5
Programmes/Course offered:	4
Permanent Faculty Members:	58
Permanent Support Staff:	37
Students:	1107
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Committed management, faculty and staff 2. Well maintained campus in urban area 3. Good infrastructure facility
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 17-01-2023 To : 18-01-2023
6.Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. VARINDER SAHNI	FormerVice Chancellor,SANT LONGOWAL INSTITUTE OF ENGINEERING AND TECHNOLOGY LONGOWAL DEEMED UNIVERESITY
Member Co-ordinator:	DR. SACHIN DESHMUKH	Professor,DR BAM UNIVERSITY AURANGABAD
Member:	DR. P R SREEMAHADEVAN PILLAI	Dean,UNIVERSITY OF CALICUT
NAAC Co - ordinator:	Dr. A.v. Prasad	

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 delivery through a well planned and documented process**
1.1.2 QlM	**The institution adheres to the academic calendar including for the conduct of CIE**
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 into the Curriculum**
1.4	Feedback System

Qualitative analysis of Criterion 1
Srinix College of Engineering is affiliated to Biju Patnaik University of Technology, Rourkela, Odisha

The Institute has prepared academic calendar adhering to the norms of the affiliating University. A plan for conduction of tests, quizzes and assignment is prepared for continuous evaluation of the students accordingly. The students are exposed to the NPTEL/SWAYAM digital learning material that can supplement the content learnt through various courses.

Gender sensitization courses are the part of the university curriculum and the Institute arranges gender sensitization camps in the nearby slums and in rural areas for educating them topics related to women rights, human rights, gender equality, etc. Skill based programs are introduced in UG Curriculum for water harvesting, sanitization, waste management, renewable energy, Agriculture and Green Technology. Environmental study is a compulsory subject in UG programs. Curriculum has various courses for human values and professional ethics like scientific methodology, social service etc. |

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QlM	**The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners**
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**
2.3.2 QlM	**Teachers use ICT enabled tools for effective teaching-learning process.**
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QlM	**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**
2.5.2 QlM	**Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient**
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	**Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.**
2.6.2 QlM	**Attainment of programme outcomes and course outcomes are evaluated by the institution.**
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2
The Institute has designed a mechanism to handle slow learners and advance learners. Seminars and group discussions are arranged for the students. Some training programs for information on Aptitude and reasoning tests are conducted. Workshops on coding languages are also arranged.
Six classrooms are equipped with projectors. Library has digital resources for use of the students. Online quizzes and online lectures are also conducted.
Internal examinations are conducted as per the norms of the University. Answer books are shown to the students after evaluation. Any grievance registered by the students in valuation, is taken care by the Examination Committee.
Course curriculum along with COs/POs and PSOs are made available to the stake holders on Website and in Curriculum Books. Process of finding Attainment of program outcome and course outcome needs to be strengthened.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Research Publications and Awards
3.3	Extension Activities
3.3.1 QlM	**Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.**
3.4	Collaboration

Qualitative analysis of Criterion 3
The Institute has arranged Blood Donation Camps, Tree plantation camps, help to around 60 flood victims by providing them some monitory support to build their houses and distributed sanitary goods to the needy in three nearby villages. The society through the Institute provide financial assistance to the most needy patients. The Institute has rain water harvesting facility to a limited level of 2000L at present, with potential for storing more. It also has solar power generation of 1.1 KW, which is being used for garden lighting.

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 physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**
4.1.2 QlM	**The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.**
4.2	Library as a Learning Resource
4.2.1 QlM	**Library is automated using Integrated Library Management System (ILMS)**
4.3	IT Infrastructure
4.3.1 QlM	**Institution frequently updates its IT facilities including Wi-Fi**
4.4	Maintenance of Campus Infrastructure
4.4.2 QlM	**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 Institute has academic infrastructure as per the norms of the affiliating University and AICTE. Twenty six classroom, thirty six labs and wifi facility is available to carry out the academic work. There are 204 computers in the laboratories along with requisite software and internet facility. The institute may plan to have more classrooms with IT infrastructure and smart board facility. Internet connectivity with bandwidth capacity of 100 mbps dedicated leased line and 300 mbps shared connectivity are available.
The sports facilities like Volleyball Court, Badminton court, Kabaddi ground, football ground, athletic track are available. Facilities for indoor games, Gymnasium also present. Two boys' hostels and one girls' hostel having capacity of 241 and 125 respectively are available. Auditorium with a seating capacity of nearly 300 is available.

Library is automated with "Happy Mind" software developed in-house by CSE department and have 15618 volumes of books with 1306 titles. E-resources like J-Gate, Pro Quest E-Book collection are subscribed. 11 print journals are also available.

Maintenance of the infrastructure is managed centrally as per requirement.

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
5.3.2 QlM	**Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)**
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
Students' suggestions are considered while designing add-on courses. There is a students' representation in Library committee and in anti-ragging committee. Student's council is yet to be constituted. Students' representation on some more decision making committees is expected. The Institute has a registered trust, catering to the Alumni. It is supposed to help the students in placements and mentor the students in their technical growth. The Institute publishes the college annual magazine with a name of "Techno Spark" every year.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QlM	**The governance of the institution is reflective of and in tune with the vision and mission of the institution**
6.1.2 QlM	**The effective leadership is visible in various institutional practices such as decentralization and participative management**
6.2	Strategy Development and Deployment
6.2.1 QlM	**The institutional Strategic / Perspective plan is effectively deployed**
6.2.2 QlM	**The 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 effective welfare measures for teaching and non-teaching staff**
6.3.5 QlM	**Institutions Performance Appraisal System for teaching and non-teaching staff**
6.4	Financial Management and Resource Mobilization
6.4.1 QlM	**Institution conducts internal and external financial audits regularly**
6.4.3 QlM	**Institutional strategies for mobilisation of funds and the optimal utilisation of resources**
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**
6.5.2 QlM	**The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities** **(For first cycle - Incremental improvements made for the preceding five years with regard to quality** **For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)**

Qualitative analysis of Criterion 6
The vision and mission of the college focuses on imparting national standard technical education at affordable cost, through academic excellence and making students employable with leadership qualities. Regular Principal is heading the college. Duly constituted governing body is in place and heads of each department are playing active role in the functioning of the institution. The college encourages the faculty to attend FDP /conferences/workshops etc. The institution attempts participative management through decentralization and delegation of power partially. The principal as administrative head executes the policies of the management in consultation with the faculty and the staff. College budgetary allocation is reflected in the balance sheet. Substantial budget allocation and major decisions regarding procurement and other expenditure are taken by Governing Body of the college. Institutional Performance Appraisal System is in place and needs strengthening. Increments are given based on the performance appraisal and experience. Institutional strategies for mobilization of funds are required to be designed. The IQAC is duly constituted, but the role of IQAC

needs to be strengthened. The Institute needs to have a strategic plan which will help it for consistent development. Infrastructure additions, betterment in IT application and introduction of NPTEL Digital Lectures are in place. Policy needs to be framed for optimum utilization of resources.

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	**Measures initiated by the Institution for the promotion of gender equity during the last five years.**
7.1.3 QlM	**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)** • **Solid waste management** • **Liquid waste management** • **Biomedical waste management** • **E-waste management** • **Waste recycling system** • **Hazardous chemicals and radioactive waste management**
7.1.8 QlM	**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**
7.1.9 QlM	**Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**
7.1.11 QlM	**Institution celebrates / organizes national and international commemorative days, events and festivals (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 has constituted a committee against sexual harassment as per UGC norms and it is owning the responsibility of conducting various awareness programs on gender sensitization, self-defense, counselling, cyber security, empowerment, safety and security. The college is also participating in extension activities and trying to understand the local community problems along with the solutions. The college organizes the induction programs for the new entrants. Various expert talks are arranged on Indian constitutional obligations such as human values, rights, duties and responsibilities of the citizens, etc   **Best Practices:**   As per our Peer Team observation, the Best Practices of the college are listed below;   • Allotment of books for all subjects to all the students at the start of the semester.   • Providing the hostel facility at the affordable price.   • Providing scholarships to the needy students

Distinctiveness:

- Promoted the students to register for SWAYAM courses apart from classroom teaching. The outcomes are visible.
- Students engagement in participating sports events, enabling them to participate at national level
- Alumni engagement in organizing mock test and interview for undergraduate students to enhance soft skill.
- Faculty belongingness to the institute.
- Gender ratio in Faculty is very good.

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

Overall Analysis

Strength:

- Proactive and committed management for the growth and development of the Institute
- Young and Dedicated faculty members
- The Institute has good infrastructure and it is located in urban area

Weaknesses:

- Limited Senior and experienced faculty
- Less number of research publications and patent publications
- Inadequate consultancy and sponsored projects
- The Institute lacks formal linkage with centers and organizations of excellence in India and abroad
- Inadequate levels of students participation from other states

Opportunities:

- Utilizing alumni resources for undertaking industry relevant projects and improving employability of students
- Organizing National/Regional level workshops, seminars, and conferences for the benefit of the faculty and students
- Identifying local and regional technology needs and working for development of appropriate technologies

Challenges:

- Getting financial support from funding agencies through sponsored projects
- Attracting consultancy services for the resource generation
- Developing Innovation products/Technologies for the benefit of the society and nation at large
- Attracting higher ranking students in the institute including other state and foreign students

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)

- Inculcate the research culture with faculty members and motivate to publish more research publications in peer reviewed journals of repute

- Recruit and retain senior and middle level faculties

- Alumni association may be further activated to harvest their potential

- For improve the economic viability of the students, the Institution have to introduce the projects like "Earn while Learn" by initiating more startup programs

- Establishment of Incubation Center with Industry collaboration in a much focused way

- Formulation of long term perspective plan and strategic planning for the growth and development of the institute

- Motivation and encouragement of faculty members of all the departments for undertaking major and minor research projects in emerging interdisciplinary areas with funding from national and international organizations

- Industry, need based and job oriented programs be started

- Efforts have to be made to start NSS, Unnat Bharat Abhiyan, etc. to promote social orientation of the students

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. VARINDER SAHNI	Chairperson	
2	DR. SACHIN DESHMUKH	Member Co-ordinator	
3	DR. P R SREEMAHADEVAN PILLAI	Member	
4	Dr. A.v. Prasad	NAAC Co - ordinator	

Place

Date

Sl.No	Name		Signature with date

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