

Peer Team Report

on

Institutional Assessment and Accreditation

of

Smt. Kashibai Navale College of Engineering
S.No. 44/1, Vadgaon (Bk) Off Sinhgad Road
Pune, Maharastra - 411041
Id: MHCOGN26171

Dates of Visit
September 19-21, 2016



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

PEER-TEAM REPORT ON Institutional Accreditation of Smt. Kashibai Navale College of Engineering	
Section I: GENERAL	Information
1.1 Name & Address of the Institution	Smt. Kashibai Navale College of Engineering S. No. 44/1, Vadgaon (Budruk), Off Sinhgad Road, Pune – 411041, Maharashtra Id: MHCOGN26171
1.2 Year of Establishment	2001
1.3 Current Academic Activities of the Institution	Offering UG and PG courses in Engineering and Management
• Faculties/Schools:	Faculty of Engineering
• Programmes/Courses offered:	UG: 04 Bachelors Programmes in Engineering PG: 05 Masters Programmes in Engineering offered in two shifts, and 01 MBA Programme
Permanent Faculty Members:	240: University approved: 174 (Male: 95, Female: 79) Management approved: 66 (Male: 36, Female: 30)
Permanent Support Staff:	170: (Admn 130: Tech 40) (Male: 117, Female: 53)
Students	UG: 4297 (Boys: 3184, Girls: 1113) PG: 286 (Boys: 136, Girls: 150) Ph.D.: 14 (Boys: 08, Girls: 06)
1.4 Three major features in the institutional context (as perceived by the Peer-Team):	<ul style="list-style-type: none"> • One of the large numbers of Colleges runs by STES. • Self-financed co-educational academic College affiliated to SPPU. • Education delivery towards obtaining high marks in University examination and placement.
1.5 Dates of visit of the Peer-Team (A detailed visit schedule may be included as Annexure):	19 th – 21 st September 2016 Annexure-1
1.6 Composition of the Peer-Team which undertook the on-site visit:	
Chairperson	Prof. Rajpal S. Sirohi
Member-Co-ordinator	Dr. Ajit Kumar Panda
Member	Prof. Raj Kumar Mittal
NAAC Officer	Dr. Ganesh Hegde

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Section II: CRITERION WISE ANALYSIS	Observations (Strengths and /or Weaknesses) on Key-Aspects
2.1 Curricular Aspects	
2.1.1 Curricular Planning and Implementation:	<ul style="list-style-type: none"> • College implements the curricular prescribed by the Savitribai Phule Pune University (SPPU). • College follows the academic calendar of the University and then each Department prepares its timetable. • College is trying to pursue formal mechanism to implement stated goals.
2.1.2 Academic Flexibility	<ul style="list-style-type: none"> • College offers 04 UG and 05 PG programs in engineering and 01 PG program in management. • College does not have flexibility to change curriculum. • College offers only limited electives in UG and PG programmes. • College offers Student Training Programme (STP) to equip them with technical and non-technical skills. • Due to University constraints there are few need based interdisciplinary projects in UG, and meager research in PG. • College enrolls students for Ph.D. in Computer Engineering from 2013.
2.1.3 Curricular Enrichment:	<ul style="list-style-type: none"> • Enrichment through industrial visits, in-plant training and some expert lectures. • Student Training Programs (STP), Value-Added Program (VAP) and Certificate courses are offered. • College encourages the students to participate in inter-collegiate competitions. • Curriculum provides limited scope for introducing courses in emerging areas.
2.1.4 Feedback System	<ul style="list-style-type: none"> • College collects mid-semester and end-semester examinations feedback from the students. • Online feedback about each teacher is collected from the students. • There is some evidence of feedback analysis for corrective measures.
2.2 Teaching-Learning & Evaluation	
2.2.1 Student enrolment and Profile:	<ul style="list-style-type: none"> • Admission process is publicized and controlled through Centralized Admission Process (CAP) by DTE, Maharashtra, and is transparent. • 20% admissions are carried out at the College level adhering to the guidelines of DTE and GoM. • Reservations and related benefits as per rules of State

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	<p>Government are available to all categories.</p> <ul style="list-style-type: none"> • Admissions to PG programmes are poor. • Most of the students are from the areas around Pune. • Students' enrolment is decreasing gradually over a period.
2.2.2 Catering to Student Diversity:	<ul style="list-style-type: none"> • College does not cater to the needs of divyang (differently-abled) students. However, wheel chairs and ramps at ground floor at couple of places exist. • Mechanism to identify slow and advance learners has been initiated. • 30.36% of the students are women. It has students from all strata of the society. • Only a few students from outside the Maharashtra State.
2.2.3 Teaching-Learning Process:	<ul style="list-style-type: none"> • The teacher prepares course files, teaching plan, subject notes, PPTs etc. according to the syllabi of SPPU. • Sufficient number of classrooms is available. Delivery is mostly through lecturing with chalk and board. • ICT is not employed in teaching-learning process. There is no smart classroom. • Learning environment, due to constraints from University, is not conducive for critical thinking, creativity and scientific temper. • Approximately 25% students are absent in every theory class.
2.2.4 Teacher Quality:	<ul style="list-style-type: none"> • 15 Ph.D. holders in 240 teachers. • 51 teachers are pursuing Ph.D. • Cadre ratio not maintained. • All the teachers are from Pune and around region.
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> • University conducts mid-semester and end-semester examinations. There is a little weightage for continuous evaluation of performance of students. • Role of College in introducing reforms in evaluation process is limited. However, the College prepares the students for mid-semester and end-semester examinations by conducting mock-tests. • Grievance redressal mechanism partially exists.
2.2.6 Student Performance and Learning Outcomes:	<ul style="list-style-type: none"> • 97 students have secured ranks in affiliating University examinations during last 15 years. • No proper system in place to keep track of the learning outcomes. • Performance of students in competitive examinations is poor. • Overall student performance is satisfactory. • Students are doing mini-projects for additional learning.

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
2.3 Research, Consultancy & Extension:	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> • There is a research center in Department of Computer Engineering, where 14 candidates are working towards Ph.D. • College allocated approximately Rs.3.5lakhs towards research in 2012-13 and Rs.1.00lakhs in 2014-15. • College extends support to faculty members to undertake research. • Institute has tie-up with Aalborg University, Denmark where its faculty could work towards Ph.D. • Over all motivation for conducting research work and interdisciplinary research work requires attention.
2.3.2 Resource Mobilization for Research:	<ul style="list-style-type: none"> • SPPU provided grants for a few projects and there are one to two small projects funded by the industry. • College did not submit any proposal for funding to agencies like AICTE/ CSIR/ DST etc. in last 5 years. • Inter-disciplinary research is yet to start.
2.3.3 Research Facilities:	<ul style="list-style-type: none"> • Adequate IT facilities in Research Center to carry out research in IT areas exist. There is only one faculty member (Principal) from the College recognized as Ph.D. supervisor associated with the Research Center. • College is yet to procure non-IT equipment for research. • Need to establish research centers in Departments offering PG programmes.
2.3.4 Research Publications and Awards:	<ul style="list-style-type: none"> • Few faculty members have published papers in Journals and Conference Proceedings, and have written books. One faculty member has h-index 7. • Publications in archival journals require serious attention. • Faculty members have not received any award that pertains to research work. However, one faculty member received best thesis award from Aalborg University.
2.3.5 Consultancy:	<ul style="list-style-type: none"> • Consultancy of few thousand rupees is done. • College should formulate consultancy policy and strengthen linkages with industry.
2.3.6 Extension Activities and Institutional Social Responsibility:	<ul style="list-style-type: none"> • A few students carry out research work on the product development and modification, which are socially relevant. • Social activities being carried through NSS. • Participation in social awareness programs is visible.
2.3.7 Collaborations:	<ul style="list-style-type: none"> • College has signed MoUs with several industries mostly for the training and skill development of the students. • College has signed a MoU with Aalborg University, Denmark for carrying out research work.


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
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	<ul style="list-style-type: none"> • Collaboration is not visible in terms of academic and research outcomes except two completed Ph.D. works and 5 Ph.D. works under progress at Aalborg University.
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical facilities:	<ul style="list-style-type: none"> • College has sufficient classrooms, tutorial rooms and laboratories. • There are 285 faculty cabins. • Sports and games facilities are shared with other Colleges of the Society. • There are ten boy's hostels, 11 girls hostels and 13 messes. Hostels and messes are shared by students of other Colleges of the Society. • There is a shared Auditorium. • College lacks facilities for Physically – Challenged students. • College provides residential facility to faculty and staff, which is shared with other Colleges of the Society. • 500kVA Generator is available to entire campus, which is shared with other Colleges. • There is a swimming pool in the campus, which caters to the residents of all Colleges.
2.4.2 Library as a Learning Resource:	<ul style="list-style-type: none"> • There is a Library for 11 Colleges of the Society in the campus: a floor area of 255m² is assigned to SKNCOE. This portion has 34255 books with 5078 titles. There are no Braille books and journals. • There is a lift in the library to cater to the physically challenged students. • Library uses AUTOLIB software and barcode system for quick accession of the books. There are 30 computers for Internet browsing and e-access of books and journals. Digital library is functional. There are no printers for printouts of download at the digital library. • NPTEL courses are available on CDs and DVDs. • Daily walks-ins are around 50 to 60 for SKNCOE.
2.4.3 IT Infrastructure:	<ul style="list-style-type: none"> • 975 computers and 07 servers are available in the College. • Limited Wi-Fi enabled campus. • Smart classrooms are not available.
2.4.4 Maintenance of Campus Facilities:	<ul style="list-style-type: none"> • Buildings are well maintained. • Maintenance of equipment, computers, printers and LCD projectors is not covered by AMCs but these are maintained by the College. Maintenance of two

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	generators is covered under AMC. <ul style="list-style-type: none"> • Maintenance of toilets requires little more attention.
2.5 Student Support and Progression:	
2.5.1 Student Mentoring and Support	<ul style="list-style-type: none"> • Financial support as per the reservation policy of GoM and Central Govt. is provided to the students. • There is one Parent-Teacher (PT) for a group of 20-25 students, who guides and counsels them. • Student mentoring, placement, career guidance, anti-ragging committee and women cell exist through Students Council established in 2013. • Soft skill, communication skill and personality development classes are in place. • Mentoring towards higher studies and competitive examinations needs improvement. • College implements 'Learn and earn scheme' of the university but it provides meager financial support.
2.5.2 Student Progression:	<ul style="list-style-type: none"> • UG to PG progression needs to be improved. • Around 40% students are placed through campus placement at the end of the academic programme. • Overall pass percentage of the students is around 80%. • A few students qualify in GATE, GRE/TOEFL and CAT examinations. • College has registered Alumni Association but its meeting are not held regularly.
2.5.3 Student Participation and Activities	<ul style="list-style-type: none"> • Student's participation in co-curricular and extra-curricular activities is really visible. • Students participate in technical events. • Students actively participate in NSS activities.
2.6 Governance, Leadership and Management	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> • College has well-articulated Vision and Mission statements. • College has two main bodies namely Governing Body (GB) and Local Management Committee (LMC). Governing Body meets twice annually while LMC meets more often. • Development of second level leadership is in progress.
2.6.2 Strategy Development and Deployment:	<ul style="list-style-type: none"> • College yet to develop a strategic plan for deployment. • Efforts are made towards decentralization in decision-making.
2.6.3 Faculty Empowerment Strategies:	<ul style="list-style-type: none"> • Faculty development programme is in place. • Limited financial delegation to the departments.

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	<ul style="list-style-type: none"> Teachers are encouraged for higher studies by adjusting their duties. Teachers are provided Internet facilities, NPTEL videos, software packages etc. to upgrade their skills.
2.6.4 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> Funds are generated through tuition fee, development fee and grants from SPPU. Audited accounts statements are available.
2.6.5 Internal Quality Assurance System:	<ul style="list-style-type: none"> IQAC does not exist. There is a common Academic Monitoring Committee (AMC) for all Colleges of the Society. Academic Monitoring Committee looks after the quality assurance in academics. Academic audit needs reorientation.
2.7 Innovation and Best Practices:	
2.7.1 Environment Consciousness:	<ul style="list-style-type: none"> Solar (42 panels) water heaters are installed in hostels. Rainwater harvesting is not in place. There is one sewage plant in the campus and the treated sewage is recycled. Green Energy, Green Campus concept is initiated.
2.7.2 Innovations:	<ul style="list-style-type: none"> The students have initiated some innovative projects. College yet to start innovation seriously.
2.7.3 Best Practices	<ul style="list-style-type: none"> Parent-Teacher programme is in place. STP to enhance employability. All administrative processes are automated using Governing Education Management System (GEMS) package.

Section III: OVERALL ANALYSIS	Observations
3.1 Institutional Strengths:	<ul style="list-style-type: none"> One of the large number of Colleges run by STEs. Adequacy of financial resources. Visible Co-curricular and Extra-curricular activities including Internship programs conducted by the College. Integrated campus with many facilities Young and energetic faculty having four patents, two copy rights and a few book
3.2 Institutional Weaknesses:	<ul style="list-style-type: none"> Large number of teachers with PG degrees only. Space limitation. Not much research, consultancy and collaborative

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	<p>activity.</p> <ul style="list-style-type: none"> • Laboratories at PG level are inadequate. • Demand ratio is decreasing with time.
3.3 Institutional Opportunities:	<ul style="list-style-type: none"> • Value added courses in emerging area of technologies, humanities and social sciences. • Effective utilization of alumni and parents for development of the College. • Effective Institute - Industry - Interaction through structured MoUs. • Consultancy and collaborative activities with local business sectors. • Further promotion of outdoor sports and indoor games activities. • Involving established academicians to inculcate moral and ethical values.
3.4 Institutional Challenges:	<ul style="list-style-type: none"> • Inclusion of practical inputs based on real-time applications in teaching-learning process. • Creating right ambience for innovative research. • Developing learning strategy to prepare students to face recent and global challenges. • Integrating ICT with teaching-learning process. • To create right ambience for institutionalized consultancy and sponsored projects. • To compete with local colleges and colleges of the Society.

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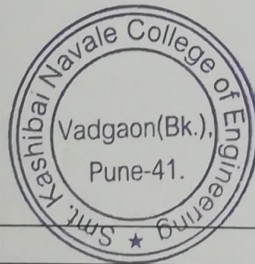
Section IV: Recommendations for Quality Enhancement of the Institution

(Please limit to ten major ones and use telegraphic language)

(It is not necessary to indicate all the ten bullets)

- Maintain cadre ratio of faculty.
- Faculty should be encouraged to engage with industry and generate consultancy income.
- Should conduct multi-skill development programs for non-teaching & technical staff.
- Create Competitive Examination Cell to prepare students for competitive examinations for higher studies, and PSU and Govt. jobs.
- Should promote faculty for conducting research work and to apply for research projects from funding agencies like AICTE, DRDO, CSIR, DST etc.
- Research productivity must be enhanced leading to SCI/SCOPUS publications and patents.
- Alumni Association should be utilized for development of the College.
- Physical infrastructure needs to be strengthened for divyang (differently-abled) students.
- Provision of seed money to faculty for research.
- Deepening ICT in teaching-learning process.
- Teaching-learning process needs to be monitored properly to assess outcome.
- Engage students in sports as much as in cultural activities.
- College should depute more teachers to attend short duration courses, conferences and workshops. Teachers should be exposed to working environment of some of the best engineering institutes in the country.

I agree with the observation of the Peer-Team as mentioned in this report.



[Signature]
Signature
Principal, College
Smt. Kashibai Navale
College of Engineering

Vadgaon(Bk), Pune - 41.

Signature with date

Name and Designation		Signature with date
Rajpal S. Sirohi Former Director, IIT Delhi	Chairman	<i>[Signature]</i> 21.09.2016
Ajit Kumar Panda Principal, NIST	Member Co-ordinator	<i>[Signature]</i> 21-9-2016
Raj Kumar Mittal Professor	Member	<i>[Signature]</i> 21.9.2016
Ganesh Hegde Deputy Adviser, NAAC		