



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

Accreditation - (Cycle - 2)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
K.S.R.M. COLLEGE OF ENGINEERING**

**KADAPA
Andhra Pradesh
516003**

**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:	K.S.R.M. COLLEGE OF ENGINEERING KADAPA Andhra Pradesh 516003	
2.Year of Establishment	1980	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	6	
Programmes/Course offered:	14	
Permanent Faculty Members:	194	
Permanent Support Staff:	111	
Students:	2735	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Recognized under 2(f) and 12(B) categories of UGC 2. ISO 9001:2015, ISO 9001:2008 and 140001:2004 certified autonomous college 3. Catering to the needs of the poor and underprivileged section of the society	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 05-10-2018 To : 06-10-2018	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. SHOROSIMOHAN DAN	FormerVice Chancellor,The University of Burdwan
Member Co-ordinator:	DR. AMIYA KUMAR RATH	Director,College of Engineering Bhubaneswar
Member:	MR. P C CHOUBEY	
NAAC Co - ordinator:	DR. GANESH HEGDE	

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	Curriculum Design and Development
1.1.1 QIM	Curricula developed /adopted have relevance to the local/ national / regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all the program offered by the Institution
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 college was established in 1980 with a view to be a centre of excellence in engineering and technical education. The college has obtained the Autonomous status of in the year 2014. At present it offers five UG, five PG and four Ph.D. programmes. The college has obtained 2(f) and 12(B) status from UGC. The campus area is 35.23 acres. College has taken steps to prepare the Curricula of all the programmes based on the Graduate Attributes of NBA. While designing the curriculum, feedback taken from employer and alumni have been taken into consideration by the Board of Studies (BOS). Mini projects have been added in the curriculum in different semesters. There are representatives of industry experts and faculty members in BOS of the college. The curricula offer choices of electives. All the branches have a course in communication skills. The institute has an Academic Committee comprising Principal, Heads of the Departments and others for planning and monitoring overall academic activities of the institution. Academic calendar is prepared and implemented. Principal convenes meeting of all the teaching and non-teaching staff before commencement of classes of each semester. Individual faculty members upload their course plan before commencement of classes. The effective implementation of curricula is ensured by supplementing classroom teaching with expert lectures, seminars, mini-projects, industry visits, tutorials, assignments and NPTEL lectures, etc. SMS are sent to the parents of absent students. College develops action plans for effective implementation of the curriculum. Continuous monitoring of syllabus coverage is taking place by the individual faculty. The institute takes feedback from students to improve teaching learning process. Few training programs conducted by inviting industry experts. Different departments organize seminars, workshops, industrial visits to meet the need of the students. Some Memorandum of Understanding was signed with industries to help the students to learn beyond the syllabus, however the outcomes needs to be properly monitored. College addresses issues related to environment and organizes tree plantation, blood donation camp, social awareness programmes, digital awareness programmes etc. through its NSS unit. Every year students organise national level student's symposium in which different events on professional ethics are show cased. It has technical clubs to enhance technical and social awareness among students. Add on and skill development courses need to be introduced. Structured feedback needs to be further strengthened.

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	Preparation and adherence to Academic Calendar and Teaching plans by the institution
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.4 QIM	Positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment on the examination management system
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

KSRM College of Engineering follows the admission process as per the guidelines given by the Government of Andhra Pradesh through EAMCET and ECET for B.Tech programme and through GATE and PGECET for M.Tech programme. Admissions to the UG programmes are by and large good. However, admissions to the PG programmes are very weak and there are 06 students enrolled in Ph. D. Programmes. The admission process is transparent, and the reservation policy is followed as per state Govt. norms. Institute conducts induction program for the first year students immediately after they join. Mechanism in place to provide necessary supports for the slow learners. Faculty members are Qualified and experienced. Out of 194 permanent teachers 56 have PhDs, 4 MPHils, and remaining M.Tech in respective stream. There is a provision for visit the industry and attend the internship for the students. Faculties are encouraged to participate in seminars, workshops, conferences. Induction program is organized for the beginners on the first day of holding classes. Students are made aware of the academic and other facilities available in the college. Learning levels of the learners are initially identified on the basis of results of internal and end semester examinations and through some less formal methods. For every class there exists one faculty adviser to monitor the progress of each students, particularly to look after the needs of the slow learners. Slow learners are provided with remedial classes and coaching classes. Lectures of expert persons on value addition are arranged for all students. Advanced learners are encouraged to take part in online courses of NPTEL. Activities for advanced learners need to be encouraged suitably. There is special provision for soft skill training and counselling for all students since the College has identified the lack of communication skills as a major challenge facing them. Classes are held regularly and are largely in the conventional lecture mode. However, ICT enabled teaching-learning method is also in practice. Active learning, experiential learning and project-based learning are also practiced making the learning student centric. Industrial visits also help to improve the learning level of the students. Laboratory manuals prepared by faculty members which are useful to the students. These manuals contain the theory and the procedure to be adopted by the students in carrying out the work. Out of 194 permanent teachers nearly 29% teachers have Ph. D. degrees and remaining has PG qualifications. Faculty members having only PG degree be encouraged to pursue Ph.D. Programmes. The

academic calendar is strictly followed by all the departments and teachers prepare teaching plan before commencement of each semester. Students have the opportunity to see their examination answer sheets, discuss with teachers to ensure transparency in internal examinations. Continuous evaluation takes the form of mid-term and end-term examinations. Overall performance, attendance, feedback is communicated to the respective guardians. Examination management system is computerized. POs and PSOs are displayed for teachers and students in institute web site, notice board and some other places. Parents and new students are made aware of POs during orientation programme conducted at time of commencement of first year class.

Attainment of POs and PSOs are yet to be an integral part of the institute. Internal and external academic audit to be initiated by the IQAC.

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Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Promotion of Research and Facilities
3.2	Resource Mobilization for Research
3.3	Innovation Ecosystem
3.3.1 QIM	Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge
3.4	Research Publications and Awards
3.5	Consultancy
3.6	Extension Activities
3.6.1 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
3.7	Collaboration

Qualitative analysis of Criterion 3

The college has set up a Centre for Research and Innovation (CRI) with experts from academia and industries under the Chairmanship of Principal to create and nurture the research and innovation ecosystem in the college. The institute has signed 20 MOU's. The institute takes special efforts for transfer of knowledge by organizing various technical activities. The institute provides financial and infrastructural support for organizing programmes. A few faculties are recognised as research guides. PG teachers should be encouraged and facilitated to enrol for Ph.D. Teachers with Ph.D degrees to be motivated to guide research scholars and receive extramural projects from different funding agencies including industries. Start-up/seed grants are to be provided to more faculty members. The college has completed few research projects. Some of the faculties are having good publications in journals having impact factor. All faculty members to be encouraged to publish papers in good and reputed journals and journals with good impact factor. Some faculty members are doing consultancy in their respective areas. The college has generated revenue more than Rupees one crore through consultancy. The institute is actively involved in extension activities like skill development training to educate unemployed youth, training on basic computer fundamental, environment awareness camp, providing the local children with tutorials in Mathematics, English, Science and social science.

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 resource 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 institute has adequate infrastructure required for teaching and learning. It has around 40 class rooms, 4 seminar rooms, well equipped laboratories, common workshop, Central Library with Reading room, departmental libraries, Boys Hostel (345 inmates) and Girls Hostel (440 inmates). Some of the Classrooms and seminar halls have LCD projectors. The institute has a network of more than 800 computers within the campus which is supported by LAN with 100Mbps Internet connectivity. Wi-fi exists in selected areas and in hostels. Few software are licensed and other are open source. Library is spreads over an area of 1000 sq. meter having 63,119 books with 11120 titles along with e-journals with limited accessibility. The library has institutional membership of DELNET. Library is fully automated with ECAP 2.0 version. It has collection of few rare books. Working hour is from 9AM to 7PM on working days and on holidays from 10AM to 1PM. The college allocates budget for the maintenance of the infrastructures, laboratories and the classrooms. The maintenance and the cleaning of the classrooms and the laboratories are taken care by third party contracts and non-teaching staff. The IT infrastructure and some other electrical systems are maintained with AMC. The college has cricket ground, basketball court, football ground, Gym, auditorium etc. for indoor and outdoor sports and games. Electronic surveillance system ensures security in the campus. Imparting of instruction in soft skills is provided through well-equipped Language laboratory. It provides uninterrupted power supply through 250 KVA generator and has adequate water supply. Computer labs are well equipped. Central RO plant is available. College has installed one solar panel system of 200 KW. ERP system helps to manage the entire administration, campus operation and academic management in an efficient way. The students are encouraged to participate in extra-curricular activities like Indoor & Outdoor Sports, Cultural Activities and laurel prizes.

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

College organizes Annual Sports, Technical and Cultural events every year. All these events are organized by student clubs along with the faculty advisors of all the departments. Some students have participated and obtained prizes in different sports at the University and State level. Various committees such as Anti-Ragging Cell, Grievance Redressal committee and Committee for 'Sexual Harassment of women' at work place are functioning. Anti-ragging and IQAC have student representatives. Around 150 students get benefit of institutional scholarships, free ships, etc apart from government schemes. The academic result of students in last five years is good. On-campus placement is rather moderate. The Placement cell needs to put more efforts to place more number of students. The number of students going into higher education is moderate. The college arranges training for GATE and other competitive examinations. There is no formal Student Council, however, the Class Representatives (CR), nominated by the teachers play important roles in student related matters and activities. The institute has an active student club responsible for conducting cultural activities, co-curricular and extracurricular activities, technical quizzes etc. The college has registered Alumni Association. Alumni help the institute towards placements of students. Contribution of the alumni for the development of the institute is appreciable.

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 college is under a trust and there is a governing body as per AICTE norms. The management gets the information from Academics Branch, Examination Branch, Administration Branch, Accounts & Audit Branch, head of the departments, teaching staff and non teaching staff to review the activities of the institution. The administrative authorities need to develop Entrepreneur development cell to create entrepreneur culture in the institutions. Internal Quality Assurance Cell exists, however the cell to be proactive to improve the quality of education in the institutions. The college has different welfare schemes such as EPF, gratuity, group insurance, maternity leave etc. for the employees. Various committees are formed to carry out the developmental need of the institute. Research and Development cell promotes the research work and encourage the students to publish papers in reputed conferences and journals. They are encouraging the staff and students to conduct conferences and workshop to create the awareness and opportunities in respective fields. College Academic council advised to improve the existing facilities in laboratories. Resource mobilization is largely through student fees. The college maintains audited statement of accounts and

maintains a balance sheet and thereby maintaining complete transparency in its financial functioning. College has implemented most of the recommendations of the previous accreditation by NAAC peer team.

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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	Institution shows gender sensitivity in providing facilities such as a) Safety and Security b) Counselling c) Common Room
7.1.5 QIM	Waste Management steps including: • 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	Green Practices • Students, staff using 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

The institution addresses the issues of gender sensitivity by taking care of the Safety & Security in general and girls in particular. The institute has installed several CCTV cameras at different strategic locations. The institute has students counselling cell and for every class there is one faculty mentor. It has provision for girls' and boys' common room. The college is well maintained and keeps good hygiene. Not only is the academic area clean but the playgrounds and general areas as well as the hostels, toilets and other amenities are kept in good shape. The campus is well endowed with greenery, trees, potted plants. It has provision for solid, liquid and e- waste management. Solid waste is handed over to local municipality whereas liquid waste of wash rooms directly goes to municipal sewage line. E-waste is handed over to e-waste recycler. Rainwater harvesting system is in place. To promote green practice the institute encourages use of bicycle and public transport, plastic free campus green landscaping with tree and plants. The institute celebrates national festival, birth anniversaries of great Indian personalities and different important days such as Teachers Day, Engineers Day etc. Institutional best practice is to 1) deliver effective knowledge transfer to the students for their all-round development. 2) to encourage and prepare the students and faculties to appear and qualify Certified Lab

view Associate Developer (CLAD). Institutional distinctiveness is to create an ambience that provides a probing environment in the area of career and setting of goals for the social sustainability of the students.

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

Strength

Strength

1. Adequate physical infrastructure
2. Visionary and committed management
3. Qualified and dedicated faculty and staff
4. Slow learners are provided with remedial classes
5. Recognized under 2(f) and 12(B) categories of UGC

Weakness

1. Less number of publications in good reputed journals
2. No research projects at present
3. Limited placement in core industries
4. Lack of innovative add-on and skill courses
5. No linkages with National institute of repute

Opportunities

1. Large campus area for further extension
2. Possibility to establish incubation centre for entrepreneurship development
3. To avail research project related to rural area development from different funding agencies
4. To promote industry oriented technical courses
5. To introduce job-oriented courses
6. To contribute effectively for the development of the region through research and extension activities

Challenges

1. Attracting meritorious students
2. To fill up all the seats of PG and Ph.D. programmes
3. To place all the students with good package
4. To obtain funded projects
5. To retain qualified and senior 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)

- Perspective planning and strategic development of the college is to be focussed and published
- To encourage faculty members to submit projects to different funding agencies
- To install ICT infrastructures including smart and interactive board in the class rooms
- Steps to be taken to publish research papers in reputed peer reviewed journals
- To make provision for seed money to the faculty members to start research work
- To publish papers in peer reviewed journals having good impact factors
- Functioning of IQAC to be strengthened
- To make renovation of the first-year hostels including installations of more fans in the rooms
- To make arrangement of cubical with all facilities for the faculty members
- Innovation and incubation centre to be established for entrepreneurship development

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. SHOROSIMOHAN DAN	Chairperson	
2	DR. AMIYA KUMAR RATH	Member Co-ordinator	
3	MR. P C CHOUBEY	Member	
4	DR. GANESH HEGDE	NAAC Co - ordinator	

Place

Date

NAAC