



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

Accreditation - (Cycle - 2)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
R.V.R. AND J.C. COLLEGE OF ENGINEERING
GUNTUR
Andhra Pradesh
522019**

**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:	R.V.R. AND J.C. COLLEGE OF ENGINEERING GUNTUR Andhra Pradesh 522019	
2.Year of Establishment	1985	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:	1	
Departments/Centres:	10	
Programmes/Course offered:	16	
Permanent Faculty Members:	355	
Permanent Support Staff:	158	
Students:	5161	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Granted Autonomy since 2012 2. Distinct Skill Development Centers 3. Good Governance	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 17-02-2021 To : 18-02-2021	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. PRAVIN WAKTE	Pro-Vice Chancellor,Dept of Chemical Technology
Member Co-ordinator:	DR. SUKHLEEN BINDRA NARANG	Professor,Guru Nanak Dev University
Member:	DR. SUBRAMANYA K N	Principal,RV College of Engineering
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	Curriculum Design and Development
1.1.1 QIM	Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	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

- Curricular revisions are carried out by identifying the local diverse needs
- Outcome Based Education with POs, PSOs and COs are initiated and displayed on Institutional Website
- Curriculum is developed by giving importance to the Gender, Environment and Sustainability, Human Values and Professional Ethics..
- The courses on Ethics, Human Values, Human Resources & Organizational Behaviour and Community Outreach (HVCO) are some to highlight.
- Curriculum is integrated with cross cutting issues through Value Added Education

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 and organises special Programmes 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
2.3.2 QIM	Teachers use ICT enabled tools including online resources for effective teaching and learning process.
2.3.4 QIM	Preparation and adherence of Academic Calendar and Teaching plans by the institution
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.3 QIM	IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.
2.6.2 QIM	Attainment of programme outcomes and course outcomes are evaluated by the institution.
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

- Learning Levels of the students are being assessed through internal examinations, CIAs and Assignments.
- Issuance of hands-on-project material, conduction of familiarization workshops, various quizzes/presentation competitions are being arranged for the slow/advanced learners
- SI learners are being paired with the advanced learners so as to enhance their learning abilities
- Several participative learning methodologies are adopted by the institution such as group analysis, industry / field visits, projects, panel discussions etc.
- More emphasis on research component can be given so as to create the awareness about the research & innovation
- Effective content delivery by using ICT tools in the class room is adopted by all the faculty members of the institution
- Academic Calendar and teaching plans are well-mapped and have been displayed on the institutional website
- IT integration and CIAs are well-adopted in the examination procedures
- Implemented OBE- frame work for assessment process and professional skills in different forms like MOOCs, internship experience and project works, Bloom's taxonomy for assessment design etc.
- Programme outcomes, Programme specific outcomes and course outcomes for all Programmes offered
- The attainment of the POs, PSOs and COs are evaluated by the institution
- Evaluation of students is based on both Continuous Internal Assessment (CIA) and the Semester Examinations (SE)

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Promotion of Research and Facilities
3.1.1 QIM	The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented
3.2	Resource Mobilization for Research
3.3	Innovation Ecosystem
3.3.1 QIM	Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.
3.4	Research Publications and Awards
3.5	Consultancy
3.6	Extension Activities
3.6.1 QIM	Extension activities are carried out in the neighbourhood community,-sensitising students to social issues, for their holistic development, and impact thereof during the last five years
3.7	Collaboration

Qualitative analysis of Criterion 3

- Institution has created ecosystem for Research & Innovation and provides seed money for equipment purchase.
- Six research Centers are approved by the affiliating University
- More emphasis can be given to patent filing, revenue generation through consultancies, corporate trainings; tapping of funds from CSRs activities through Industry-Institution Linkages
- 02 Australian Patents are Granted, 56 faculty members are recognized research supervisors.
- Several extension activities were conducted during last five years; activities like Swachha Bharat Abhiyan, Cleaning Initiatives, Environmental Consciousness, digital literacy were planned and executed during last five years
- Certain villages from the neighborhood community are identified and adopted for uplifting the socio-economic status of the villages by carrying out the extension activities

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 infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.
4.1.2 QIM	The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.3	IT Infrastructure
4.3.1 QIM	<i>Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities</i>
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 good infrastructure with over 94 ICT-Equipped Classrooms, 10 Drawing Halls, 79 laboratories, IT Facilities including 2170 computers, WiFi, Library and other facilities
- Adequate Hostel facility for students with safety and security norms.
- Indoor and Outdoor sports / games facilities were found remarkable, dedicated 13.5 acres of land for Outdoor games
- Annual Intramural Tournaments, Inter-University Sports Competitions are organized and there is scope for organizing more competitions for girls.
- Sports facility is good in both boys and girl's hostels
- Library is automated using ILMS "LIB SOFT SOFTWARE from Environ Software, Bangalore"
- Library Services are automated with Bar-Code Technology since 2002.
- Well-versed IT facilities including Wi-Fi is available
- Adequate number of computers are existing, along with the bandwidth of the Internet Connectivity (540 mbps)
- Segregated committees for the maintenance as civil maintenance, mechanical maintenance, electric maintenance etc.
- Maintenance and utilization of the physical facilities is governed by the Management/Principal and supervised by the Heads of the Departments. However, there is scope for improvement.

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 other support services.

Qualitative analysis of Criterion 5

- The institute has an active students council
- Student representatives are being involved on various functional bodies
- Institute has a good Alumni Engagement with contribution of around 10 lakhs during last five years
- Registered Alumni Association is existing. (XXI of 1860 with Society No.140 in 1998)
- Distinguished alumni can be involved in understanding the regional needs and demands; also for raising the alumni fund for the institutional development

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 effective leadership is reflected in various institutional practices such as decentralization and participative management.
6.2	Strategy Development and Deployment
6.2.1 QIM	The institutional Strategic / Perspective plan is effectively deployed
6.2.2 QIM	The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression
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 visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)
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 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

- Institutional governance found in tune with the Vision and Mission statement of the institution
- Strategic plans are approved by the Governing Council
- Decentralization and participative management approach is adopted in the council / general functioning of the institution
- All Stakeholders of the institution have participative roles in various decision-making committees
- Strategic planning prepared is aligned with the vision and mission statement
- Short-Term and Long-Term goals are identified and strategic planning is being made for every five years.

- Organogram of the organizational structure is displayed on the Institutional website
- Administrative Set Up, various policies and procedures are well-defined and available online
- Pay Commissions, EPF, Financial Support, Leaves and infrastructural support is being provided to the teaching/non-teaching staff
- Provisions for the medical advances can be made for teaching/non-teaching staffs
- Internal and external financial audits are being conducted yearly
- Audited financial statements were not found on the institutional website
- Institute is provided with funding for research and academic activities from various government / non-government sources such as DST, FIST, DRDO, AICTE, UGC.
- Institution has Vibrant IQAC Cell;
- AQARs are being regularly submitted to NAAC
- Participated in NIRF
- AAA is in place
- CSE, IT, ECE, EEE and ME departments are accredited by NBA in year 2017.
- Institution is ISO certified (2019).
- IQAC is responsive in review of teaching-learning processes, structures and learning outcomes
- IQAC is conducting internal and external academic and administrative audit for institutional performance evaluation

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QIM	Measures initiated by the Institution for the promotion of gender equity during the last five years.
7.1.3 QIM	Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words) <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • Biomedical waste management • E-waste management • Waste recycling system • Hazardous chemicals and radioactive waste management
7.1.8 QIM	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 QIM	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 QIM	Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).
7.2	Best Practices
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.
7.3	Institutional Distinctiveness
7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Qualitative analysis of Criterion 7

- The institute promotes gender equity in admissions, recruitment, administrative functionality and academic activities
- The girl students are nominated as members of various committees at institutional levels
- Institution is having Annual Gender Sensitization Action Plan
- The campus is using the basic waste management strategy of 3R's: Reduce, Reuse and Recycle
- Separation of bio-degradable, non-degradable wastes are done
- Successful utilization of Waste Water
- E-waste is sold in buy back scheme.
- Biogas, vermicomposting initiatives for waste management

- Rain water harvesting system exists
- Courses like Constitution of India, Essence of Indian Traditional Knowledge is a part of curriculum. Also, three weeks Orientation Programs are organized regularly.
- AICTE has sanctioned "Prerana" - scheme for preparing SC/ST students for higher education"

- Various Seminars, workshops, competitions are conducted for the sensitization of the students and employees
- The college curriculum is framed with mandatory courses like Professional ethics and human values,

Constitution of India, Essence of Indian Traditional Knowledge, three weeks Orientation Program as a small step to inculcate constitutional obligations among the students.

- Republic Day, Independence Day; Teachers Day, Engineer's Day, Youth Day is being celebrated in the Institute
- Birth Celebrations and Tributes for Death Anniversary are being paid for the memory of eminent personalities
- RAJCAMS - RVR And JC College Academic Management System
- Digital learning practice is prevailing in the institution
- Donate-Service-Provide" (D-S-P) (Extension Activity)

NAAC

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

Strength

Strengths :

1. UG Programs accredited by NBA multiple times, Accredited by NAAC with A Grade (2014), ISO 9001:2015 certified (2019), Accredited by TCS- B Grade (2015) and NIRF India Rankings within 150 to 200 position (2017,2018)
2. NPTEL Local Chapter with AA to AAA Rating
3. “Best Performing Professional College”, “Best Laboratories” and “Best Eco Friendly Campus” by Acharya Nagarjuna University
4. Accolades to NSS Unit from President of India, Governor and Chief Minister
5. Dedicated qualified experienced faculty with good retention: 110 Ph.D.s (40.5%)
6. 75 MOUs with premier industries and academic institutions.
7. Established APSSDC, IITB Remote Centre & e-Yantra Lab, Incubation Centre, EMD Cell, IIP Cell, CM Centre of Excellence, Dassault Systems Laboratory, APS European Centre for Mechatronics
8. Stanford University Fellows Program; Northeastern University i2e, Entrepreneurship Development Diploma and Certificate Program, MOUs with two foreign universities – New Mexico State University and Northeastern University are in place
9. Grants worth Rs.4.04 crores received from AICTE, UGC, DST etc.
10. Excellent infrastructure
11. Conducting training programs for Faculty and Students in diverse fields.
12. Focus on professional development programmes for faculty and staff on Environmental initiatives like use of renewable energy, rain water harvesting, Zero water discharge, waste management system etc.,
13. ICT infrastructure for smooth conduct of academic, examination and administrative processes
14. Curriculum up-gradation at regular intervals
15. Exclusive Training and Placement Cell and good track record of placements in Campus Recruitment
16. Continuous support from Alumni in various aspects.
17. Means & Merit Scholarships for 150 – 200 deserving students worth Rs.30 to 40 lakhs is provided every year.
18. Appreciations from Central & State Governments for contributions during Natural calamities

Weakness :

1. Non availability of major Industries locally for Industry Institute interaction
2. Limited Industrial Consultancy work
3. Difficulty in obtaining sizeable research funds from Government & Non-Government funding agencies.
4. Few Centers of Excellence in emerging areas
5. Few collaborations among the Institutions and with Industries
6. Entrepreneurship initiatives & activities needs to be improved

Opportunities:

1. Close Industry Interaction with comprehensive understanding of Industry needs
2. Incorporating skill based training and certifications in curriculum for enhanced employability
3. Customized and need based courses as per industry /society requirements

4. Strong and supportive alma matter
5. Collaboration with Government of India for different National Missions such as Startup India, Digital India, Make in India, Swachh Bharat, Accessible India campaign etc.
6. International MoUs for enhancing joint and collaborative research
7. Global collaborations for research and education projects
8. Global exposure to Faculty and Students
9. Rural upliftment and societal development through villages adoption
10. Developing leadership qualities in the students
11. Expanding the resource base through exploring Government and Non-Government schemes
12. Using latest technology and resources for efficient and effective teaching learning process
13. Quality enhancement and development leading to Quality Education
14. Active student participation on National and Global level platforms in design competitions / contests / hackathons
15. Quality research contribution in high impact factor journals by faculty and students.
16. Credit based online courses in curriculum

Challenges :

1. 100% Placements
2. Bridging the gap between Academia and Industry
3. Work strategically on key requirements of Industry to mobilize income from consultation
4. The new millennial mind set and life style differences
5. Adaption to fast changing technology and pedagogical innovations
6. Carbon foot print implementing sustainable measures to minimize on resource use
7. Paperless Office
8. Holistic development of youth
9. Reduced student inclination towards PG and research activities

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)

- More focus needs to be on experimental learning for effective implementation of Outcome Based Education.
- Research and Industry consultancy works needs enhancement with more Industry – Institution collaborations. Quality of Paper publications to be improved.
- Faculty participation in sabbaticals in newer areas of technology be improved.
- Alumni participation in institutional development needs to be improved.
- Placement in core companies and quality of placement needs to be augmented
- Foundation laboratories are in place. However, state of the art equipment/ Soft wares to be increased.
- Mentorship for governance by premier institutions and industry experts helps in better growth
- Student’s participation at regional/national/ International sports, Extra-curricular, Co-curricular activities to be enhanced.
- Implementation of digital learning in full scale and new education policy to be implemented

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. PRAVIN WAKTE	Chairperson	
2	DR. SUKHLEEN BINDRA NARANG	Member Co-ordinator	
3	DR. SUBRAMANYA K N	Member	
4	Dr. Devender S Kawday	NAAC Co - ordinator	

Place

Date

NAAC