

RAMACHANDRA COLLEGE OF ENGINEERING (AUTONOMOUS)

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INTERNAL QUALITY ASSURANCE CELL (IQAC)



ANNUAL REPORT 2023-2024

ABOUT THE INSTITUTION

Ramachandra College of Engineering was established by Ganta Sriram Educational Society, the founders of RATNAM Educational Institutions, Nellore, is an Autonomous institution, affiliated to Jawaharlal Nehru Technological University Kakinada. This Institution offers 9(Nine) UG-B.Tech programs and 6(Six) PG-M.Tech & MBA programs with a strong commitment to academic excellence, innovation, research and holistic student development. The Institution is Accredited with NAAC A+ Grade, along with NBA Accreditation for Five UG programs i.e., CE, EEE, MECH, ECE, CSE. RCE provides state-of-the-art infrastructure, modern laboratories, Smart classrooms, high-speed internet connectivity and well-equipped seminar halls and auditoriums that create an ideal learning environment.

The college is supported by highly qualified and experienced faculty members with adoption of application-oriented and industry-focused teaching methodologies. Guest lectures are also provided by eminent academicians and industry experts for knowledge enrichment to suite the global requirements. Regular industrial visits, seminars, workshops, quizzes, mock interviews and professional society activities help students to gain practical exposure and enhance their technical and communication skills. The institution continuously upgrades its research and academic facilities to maintain excellence in engineering and management education. RCE has signed MOUs with organizations such as Tata Consultancy Services and Reliance Industries to provide industrial exposure and training opportunities to students. In addition to academic support, the college promotes overall personality development through counselling sessions, technology forums along with sports and extracurricular activities.

A disciplined and ragging-free campus environment, RCE consistently achieves excellent academic results and produces competent, ethical and industry-ready professionals.

VISION AND MISSION

Vision

To emerge as a “Centre of excellence” offering high quality Technical Education and Research Opportunities to learners and also develop complete personality of graduates with good communication, discipline, lifelong learning, leadership qualities, ethics and global standards there by making them professionally deft and intellectually adept to contribute for the advancement of environment and society.

Mission

- To impart high quality technical education by providing the state-of-the art infrastructure, core instruction and well experienced and qualified faculty.
- To develop highly motivated engineering professionals with good knowledge, communication skills, human and ethical values, requisite skills and competence.
- To produce highly successful graduates who can contribute to the profession to resolve the societal and environmental issues in the society.

Programmes Offered

S. No.	Programme	Duration	Intake
1	B.Tech – Civil Engineering	4 Years	60
2	B.Tech – Electrical & Electronics Engineering	4 Years	60
3	B.Tech – Mechanical Engineering	4 Years	60
4	B.Tech – Electronics & Communication Engineering	4 Years	180
5	B.Tech – Computer Science & Engineering	4 Years	180
6	B.Tech – Computer Science & Engineering (AI & ML)	4 Years	120
7	B.Tech – Computer Science & Engineering (IoT)	4 Years	60
8	B.Tech – Computer Science & Engineering (Cyber Security)	4 Years	60
9	B.Tech – Artificial Intelligence & Data Science	4 Years	120
10	M.Tech- Machine Design	2 Years	06
11	M.Tech – Computer Science & Engineering	2 Years	12
12	M.Tech-VLSI	2 Years	06
13	M.Tech-Power Electronics	2 Years	06
14	M.Tech – Artificial Intelligence & Data Science	2 Years	12
15	MBA	2 Years	120
TOTAL			1062

ABOUT IQAC

The Internal Quality Assurance Cell (IQAC) of Ramachandra College of Engineering was established in 2016 in accordance with the guidelines provided by the National Assessment and Accreditation Council (NAAC). The IQAC is constituted to ensure quality sustenance and enhancement of academic and administrative activities of the institution. IQAC helps in building a quality culture within the institution involving all stakeholders.

Objectives

- To function as a proactive quality assurance body by initiating and monitoring systematic action plans for continuous improvement in academic and administrative performance.
- To foster a culture of quality within the institution through the implementation, internalization and sustenance of best practices.
- To facilitate continuous institutional development by promoting accountability, transparency and excellence in teaching, learning, research, and governance.
- To ensure effective quality enhancement measures through regular assessment, documentation and adoption of innovative practices aligned with institutional objectives.

Strategies

IQAC shall evolve a mechanism and procedures for

- a) Ensuring timely, efficient and progressive performance of academic, administrative and financial units.
- b) Adoption of relevant and quality academic and research programmes.
- c) Ensuring equitable access to and affordability of academic programmes for various sections of the society.
- d) Optimization and integration of modern methods of teaching and learning.
- e) Ensuring credible assessment and evaluation processes.
- f) Ensuring the proper allocation, adequacy and maintenance of support structure and services.
- g) Sharing of research findings and networking with other institutions in India and abroad.

Functions

- a) Development and application of quality benchmarks.
- b) Setting parameters for various academic and administrative activities of the institution.
- c) Facilitating the creation of a learner-centric environment conducive to quality education and faculty development to adopt the required knowledge and technology for participatory teaching and learning process.
- d) Collection and analysis of feedback from all the stakeholders on quality-related institutional processes.
- d) Dissemination of information on various quality parameters to all the stakeholders.
- e) Organization of intra- and inter-institutional workshops and seminars on quality-related themes and promotion of quality circles.
- f) Documentation of various programmes/activities leading to quality improvement.
- g) Acting as a nodal agency of the institution for coordinating quality-related activities, including adoption and dissemination of the best practices.
- h) Development and maintenance of institutional database through MIS for the purpose of maintaining and enhancing institutional quality.
- i) Periodical conduct of Academic and Administrative Audits along with their follow-up activities.
- j) Preparation and submission of the Annual Quality Assurance Report (AQAR) as per the guidelines and parameters of NAAC.

QUALITY INITIATIVES BY IQAC (2023-24)

Significant Contributions

- Obtained and maintained ISO 9001:2015 Certification for quality management systems.
- Active Participation in NIRF Ranking – ensuring timely data submission and quality documentation.
- Secured AAA+ Ranking in Career 360 assessment.
- Ranked in the Diamond Band of OBE Ranking 2024.
- Secured Rank-89 by MDRA-INDIA TODAY in Emerging Engineering Colleges Category.
- Secured Rank-56 by THE WEEK in Emerging Engineering Colleges Category
- Secured Rank 7 in Andhra Pradesh by IIRF Rankings in Best Private Engineering Colleges Category.
- Secured Rank-71 by DATA QUEST in Top Private T-Schools Category throughout India.
- Received 4 Star rating for IIC

Plan of Action vs. Achievements

S. No.	Plan of Action	Achievements / Outcomes
1	Motivate faculty for Government Funding	Rs. 81.72 Lakhs received from central funding agencies in F.Y. 2023-24
2	Focus on Placement-Oriented Skills	600+ students placed in various MNCs
3	Student Skill Dev. & Internships	20 certification programs conducted. 2000+ students were benefited.
4	Promote Research by Faculty	87 papers in UGC-CARE Journals 33 books/chapters published
5	Entrepreneurship Development	21 programs on entrepreneurship awareness conducted
6	Extension Activities (NSS)	15 social service activities organized and 2,166 students were participated.
7	Faculty FDPs/STTPs/Seminars	120+ faculty attended FDPs/Webinars/Seminars across India

IQAC Initiatives – Teaching-Learning Process

- Motivating Faculty and Students to participate in NPTEL/MOOC Courses with credit transfer facility against elective courses.
- Detailed checklists prepared for Course File preparation for each subject in consultation with senior faculty.
- Procedures devised to prepare Handouts for all subjects in each semester.
- Workshops conducted on regular basis for calculating Course Outcomes and Attainments (CO-PO mapping).
- CO-PO Attainment Awareness created through PAC and DAC meetings of departments.
- Target Values for current year arrived based on previous year attainments. Overall Attainment = 80%Direct + 20% Indirect.
- Skill Development Programmes including company-specific trainings, weekly Aptitude tests conducted to improve placement performance.
- Revised Bloom's Taxonomy Levels implemented in all Exam Question Papers with CO mapping.
- Result Processing completed within 20 days from the date of last examination.
- Regulations and Syllabus updated as per Autonomous guidelines; NEP guidelines being implemented.

Research Grants Summary – 2023-24

S. No.	Faculty / Department	Funding Agency	Project Type	Amount (Rs.)
1	Various Departments (6 Depts.)	Central Funding Agencies	Research Projects	81,72,000
2	Individual Faculty	Institution (Seed Money)	Research Initiation	90,000
3	Consultancy Services	Industry / External Clients	Consultancy	5,32,000

RESULT ANALYSIS

Pass Percentage of Final Year Students – 2023-24

Program Name	Number of students appeared in the final year examination	Number of students passed in final year examination
B.Tech-Civil	52	32
B.Tech- EEE	110	96
B.Tech-Mech	55	33
B.Tech-ECE	191	151
B.Tech-CSE	199	164
B.Tech-AI&DS	60	53
B.Tech- CSE(CS)	60	49
B.Tech- CSE(IoT)	58	54
M.Tech -VLSI	0	0
Machine Design	1	1
M.Tech-CSE	2	0
M.Tech-PE	0	0
MBA	100	78
Total	888	711
%ge	80.06 %	

AUDIT AND ITS OUTCOMES

S. No.	Observations (IQAC Audit 2023-24)	Follow-up Action
1	Academic Calendar must be strictly adhered to	Academic Calendar uploaded on website; adherence monitored by HODs
2	Student absent details to be informed to parents	ERP/SMS alerts sent to parents on the same day
3	Result Analysis to be made for improvement	Remedial classes planned for subjects with more failures
4	ICT and Activity-based teaching to be maximized	PPTs, Video Lectures implemented in all departments
5	E-Governance portals to be updated regularly	ERP and campus management system updated regularly
6	Outreach activities to be effectively implemented	NSS conducted 21 outreach/extension programmes
7	Handouts/course material to be circulated on time	Implemented – course files updated at semester start
8	Faculty Publications to be improved	Faculty informed to publish minimum 1–2 papers per AY
9	Sports Activities to be improved	Physical Director has taken steps; various awards won.
10	Alumni, Employers and Parents meet to be organized	Implemented – feedback collected and analysed
11	Grievance Redressal Mechanism to be effective	Action taken as soon as grievance received; Zero complaints (exams)
12	Community Projects and Training to be planned	NSS – 15 social activities; 2166 students participated


Mr. Ashok Kumar Bandla

IQAC Co-ordinator

IQAC Coordinator

Ramachandra College of Engineering

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Dr. M. Muralidhara Rao

Principal

Principal

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