

### **QUALITY CIRCLE: A Best Practice at RIT**

A quality circle is a volunteer group composed of faculty members, who are trained to identify, analyze, and solve work-related problems and present their solutions to the management to improve the performance of the organization.

Rajarambapu Institute of Technology (R.I.T.), Islampur, Maharashtra, India is successfully implementing this activity. As a part of the quality circle, all the departments in the institute participate in this activity. The activity starts in the first week of the academic year with group formation and ends in May with final presentations and evaluation of the groups. Faculty members identify work-related problems, solve the problem as per the 12-step quality circle methodology, and develop as well as implement the solutions to contribute to academic empowerment.

This activity is a unique feature of the institute and it has shown useful results in terms of solutions to several problems that have been addressed so far. Some of the problems (Table 1) are listed below giving an idea about the contribution of the activity to improvement in teaching-learning.

**Table 1: Problems solved under Quality Circle for the academic year 2023-24**

<b>Sr. No.</b>	<b>Title of the Problem</b>
1	Lack of AI-ML knowledge to the Automobile Engineering Students in the field of Automotive Sector
2	Certification of NPTEL/SWAYAM & NIELIT courses under ISE/Add-on requirement of courses
3	Quality Circle initiative to improve research publications of the Civil Engineering department
4	College Bus Tracking System
5	Enhancing Research Publications of the Electrical Engineering Department through a Quality Circle Approach
6	Create Networking Opportunities for Students with Alumni and Industry Professionals to Enhance their Professional Network
7	Inculcate research culture in the information technology department
8	Enhancing Entrepreneurial Competencies among MBA Students
9	Improving Learning Experience through MATLAB Tool Implementation

10	Avoiding Misalignments in Institute- Industry Collaborations: A Guide to Effective Consultancy
11	Implementation of Monthly Rating of Faculty (MRF) for the Effective Data Management

### Achievements of Quality Circle

The institute is a regular member of the Quality Circle Forum of India (QCFI), Secunderabad and takes part in competitions organized by it at chapter and national level every year. The following Table No 2 shows the awards received in various conventions for the academic year 2023-24.

**Table 2**  
**Achievements of Quality Circle**

Sr. No.	Name of Circle	Program and award received	Team Members	Case Study Title
48th International Convention on Quality Control Circles (ICQCC-2023) in Beijing, China				
1	ENTHUSE	SILVER AWARD Electrical Engineering department	Prof. Kiran Nathgosavi	Virtual Laboratory Basic Electrical Engineering
			Prof. Sachin Kumbhar	
			Dr. Sujil A	
			Dr. V.N. Kalkhamkar	
			Prof. Amardeep Panday	
37th National Convention on Quality Concepts (NCQC 2023), hosted by QCFI Nagpur Chapter in association with RCOEM, Nagpur from 04th to 07th January 2024.				
1	ELITE	EXCELLENCE Diploma - Mechanical	Prof. Akshay M. Kulkarni	Insufficient Knowledge of Factual Tools for Decision Making
			Prof. Nilesh C. Gaikwad	
			Prof. Swapnil D. Gaikwad	
			Prof. Ansar A. Mulla	
			Prof. Vinay B. Choudhari	
			Prof. Swapnil H. Patil	
2	QCORE	GOLD AWARD Degree - Electronics & Telecommunication	Prof. Dr. Mrs. Jayshree S. Awate	To Promote Holistic Development among Engineering Students
			Prof. Mrs. Vilabha S. Patil	
			Prof. Ramesh T. Patil	
			Prof. Umesh A. Kamerikar	
			Prof. Ms. Ketaki S. Sawashe	
			Prof. Dr. Mahadev S. Patil	
38th Annual Chapter Convention CCQC 2023, at Quality Circle Forum of India, Pune chapter which was held on 09th & 10th September 2023.				
1	ELITE	GOLD AWARD Diploma - Mechanical	Prof. Akshay M. Kulkarni	Insufficient Knowledge of Factual Tool in
			Prof. Nilesh C. Gaikwad	
			Prof. Swapnil D. Gaikwad	

			Prof. Ansar A. Mulla	Students for Decision Making
			Prof. Vinay B. Choudhari	
			Prof. Swapnil H. Patil	
2	QCORE	<b>GOLD AWARD</b> Degree - Electronics & Telecommunication	Prof. Dr. Mrs. Jayshree S. Awate	To Promote Holistic Development among Engineering Students
			Prof. Mrs. Vilabha S. Patil	
			Prof. Ramesh T. Patil	
			Prof. Umesh A. Kamerikar	
			Prof. Ms. Ketaki S. Sawashe	
			Prof. Dr. Mahadev S. Patil	
3	CHALLENGERS	<b>SILVER AWARD</b> Degree - Mechanical	Prof. Manzoorahamad M. Mirza	Performance Improvement of Students in Technical Competitive Exams
			Prof. Ajinkya K. Patil	
			Prof. Ranjit A. Patil	
			Prof. Pruthviraj C. Chavan	
			Prof. Dr. Samir B. Kumbhar	



**congratulations....!!!**

Achievement at  
38<sup>th</sup> Chapter Convention  
on Quality Concepts  
organized by,  
Quality Circle Forum of India,  
Pune Chapter



**Mechanical Engineering (Diploma)**



**TEAM ELITE**  
Department of Mechanical  
Engineering-Diploma



**Electronics & Telecommunication**



**TEAM QCORE**  
Department of Electronics &  
Telecommunication



**Mechanical Engineering**



**TEAM CHALLENGERS**  
Department of Mechanical  
Engineering



### Outcomes Achieved:

- This kind of activity allows the faculty members to work together, work collaboratively towards a common goal, and understand the systematic methodology for problem-solving.
- Be recognized at the institute; state, national, and international levels organized by Quality Circle Forum of India (QCFI) and gives them a chance to experience the joy of learning.
- Increased success of students in technical competitive examinations.
- Enhanced employability skills of students.

**Mrs. S.N. Patil**  
Coordinator

**Dr. S.K. Patil**  
Dean Academics

**Dr. P.V. Kadole**  
Director