The college was established in 1963 with the name as Malaviya Regional Engineering College, Jaipur as a joint venture of the Government of India and the Government of Rajasthan, Subsequently; on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, Proclaimed Institute of National Importance through Act of Parliament. The Institute is fully funded by Ministry of Human Resource Development (MHRD), Government of India. More than 12,000 students have already been graduated since its establishment.

Extending into an area of over 317 acres of lush greenery, the campus of the Institute is imaginatively laid-out with a picturesque landscape. It presents a spectacle of harmony in modern architecture, and natural beauty which enthralls and inspires. The campus of the institute consisting of the institute buildings, halls of residence and staff colony. It is a residential campus offering accommodation to faculty, staff and students.

The campus provides all essential amenities for community living like staff clubs, hospital, bank, post office, community centre, school, staff residences, gymnasium, playing fields, guest houses, 24 Hours internet connectivity, and canteen etc.

The institute is a Centre of Excellence established by the MHRD, government of India. The institute formerly known as Malaviya Regional Engineering College (MREC) was established in 1962, as a joint venture of the government of India and government of Rajasthan.

In 1963, the college started functioning from its temporary campus at Pilani and admitted 30 students each in Electrical Engineering and Mechanical Engineering. The college moved to the present campus to Jaipur in 1965. The college was inspired by the educationist Pt. Madan Mohan Malaviya and thus named as Malaviya Regional Engineering College. Prof. V.G. Garde, the educationist and visionary, was the first principal.