

(54) Title of the invention : IOT ENABLED LABORATORY AUTOMATION SYSTEM

<p>(51) International classification :G05B0015020000, H04L0067120000, H04L0067125000, H04L0012280000, H04L0067306000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)St. Martin's Engineering College Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. P Santosh Kumar Patra Professor, Dept. of CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 2)Dr. B. Rajalingam Associate Professor, CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 3)P. Devasudha Assistant Professor, CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 4)Dr. M. Vadivukarassi Associate Professor, CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 5)Dr. R. Sathoshkumar Associate Professor and Head, CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 6)Dasari Mounika Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 7)S. Tarun Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 8)Eansapally Akanksha Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 9)Garikapati Swetha Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 10)A. Pavan Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 11)Y. Akanksha Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 12)Muthu Naga Raja Sri Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 13)Doppalapudi Sai Priya Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ----- 14)M. Susmitha Student CSE Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----</p>
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(57) Abstract :

Lab automation is building automation for the lab. It involves the control and automation of lighting, heating (such as smart thermostats), ventilation, air conditioning and electricity supply to the computers. Wi-Fi is often used for remote monitoring and control. Lab devices, when remotely monitored and controlled via the Internet, are an important constituent of the Internet of Things. Modern systems generally consist of switches and sensors connected to a central hub sometimes called a "gateway" from which the system is controlled with a user interface that is interacted either with a wall mounted terminal, mobile phone software, tablet computer or a web interface, often but not always via Internet cloud services. The main purpose is to make the lab automate with the help of IoT concepts. This system will help to reduce the cost and electricity consumption which are much high. To get rid of unnecessary usage of the electricity we came to the solution which will help us to overcome this problem.

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