GUJARAT UNIVERSITY
K. S. SCHOOL OF BUSINESS MANAGEMENT
[Five Years' (Full-time) Integrated Degree Course]

Semester-8 [M.Sc. (CA & IT)]

Subject Code: - KS_C_CC-488
Subject Name: - Project – Emerging Technologies (Internet of Things)
Course Credit: - 5

Objectives: Students will understand the concepts of Internet of Things and can able to build IOT applications. The course will focus on creative thinking and on hands-on project development.

In this subject student will develop Internet of Things project in following area.
IOT applications in Health Care
IOT applications in Home Automation
IOT applications in Agriculture
IOT applications in Smart Cities
IOT applications in Industrial Automation
IOT applications in Wearables
IOT applications in Transportation
IOT applications in Retail
IOT applications in Supply Chain
IOT applications in Energy

Instructional Method and Pedagogy:
- A group of students (2-4) shall either choose themselves or shall be assigned project topic of their interest by the faculty,. Each group will develop project under the guidance of assign faculty member..
- At the start of course, the course delivery pattern, prerequisite of the subject, concept of IOT framework, architecture, and protocol will be discussed.
- Attendance is compulsory in laboratory. Internal evaluation of students which carries 30 marks overall.
- End of semester student will be submitted project report.

Students learning outcomes

On successful completion of the course, the student will:
- Understand the concepts of Internet of Things
- Recognize various devices, sensors and applications
- Analyze basic protocols in wireless sensor network
- Design IoT applications in different domain and be able to analyze their performance
- Implement basic IoT applications on embedded platform
- Create IoT solutions using sensors, actuators and Devices

Reference Books:
1. Peter Waher," Learning Internet of Things "
2. Vijay Madisetti, Arshdeep Bahga, "Internet of Things: A Hands-On Approach"
3. Waltenegus Dargie, Christian Poellabauer, "Fundamentals of Wireless Sensor Networks: Theory and Practice