

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**M. E. Embedded Systems (Branch Code - 54)**

**Year – II (Semester – III)**

**Subject: Embedded Project Development Laboratory (735401)**

<b>Sr. No.</b>	<b>Course Contents</b>	<b>Laboratory Hours</b>
<b>1</b>	<b>Project Development on ARM processor and MSP430 processor for following tasks:</b> 1) Input – Output device interface – Keyboard, Graphic LCD interface 2) RF Modules interface for the implementation of wireless communication	<b>36</b>
<b>2</b>	<b>Project Development with RTOS support and Linux platform for following tasks:</b> 1) Webcam Interface using Embedded Linux, Image Acquisition and processing, GPIO port pin access for Input-Output interface 2) Applications Development with support of RTOS	<b>36</b>
	<b>Total</b>	<b>72</b>

**Reference Books:**

- 1) MSP430 MICROCONTROLLER IN EMBEDDED SYSTEM PROJECTS, C P Ravikumar, ELITE PUBLISHING HOUSE PVT LTD NEW DELHI, ISBN: 978-81-88901-46-3
- 2) Introduction to Embedded Systems, Shibu K V, Tata McGraw-Hill Publication, ISBN: 9780070145894