

Sr. No.	Mini Project-2 Title	Specific Hardware Requirement
1	Car rear parking sensor	Arduino, Camera, Distance Sensor
2	Smart home automation	Arduino Due Board, Thermal Sensor, Temp Sensor
3	Remote device control using Internet of Things arc	Arduino, WiFi Shield
4	Online Leave management and approval System	PHP, MySQL
5	Attendance system	Android
6	Class Room Quiz	Android
7	Dead Line Notification System	Android
8	tracking system	GPS system,wifi
9	Income Tax Calculator	PHP, MySQL
10	Seminar Management System	-
11	Course Progress Tracker	-
12	Student Bank Data Analysis	-
13	Dust Picker	Arduino
14	Power profile	
15	Simulator Enviroment	
16	Virtual Piano player	
17	Code optimization using Intel Parallel studio	
18	Medico- The Health Monitoring System	Will be decided after thorough hardware survey
19	Student Profile Mangement (Infographic View)	
21	Proxy Load balancer	
22	supervision scheduler	
23	electricity saver for classroom/wash room/auditorium/staff rooms	rasberry pi and different sensors
24	subtitile transalator	
25		
26	Sensor based office automation	Arduino Due Board, Thermal Sensor, Temp Sensor
27	Mobile Application for finding Fuel Pumps	Android
28	Safe Home System	Temperature Sensor, Camera's

29 Event Management System	-
30 Hospital Management System	-
31 Mobile Application for controlling multimedia projector	Android
32 Question Paper Generator	
33 Course Marksheet Management System	
34 Bulk File Distributor	
35 suitable roommate finding system in Hostel	
36 NFC tapping system for healthy communication	Anroid
37 Department Report Generation from newsletter data	
38 Absentism report of students	
39 Attendance posting through AMS	
40 Nirma4Parents	
41 speech biometric based attendance system	
42 rescue time app	
43 Research paper management system	
44 STTP management system	
45 Project management system	
46 Automatic Attendance Posting	
47 Internet Connection Quality Monitoring	
48 Real Time Wedding Video Uploading	
49 SMS Spam Detection	
50 Visiting Card Reader	
51 Android based Appliances control system	
52 Twitter analysys (followee recommendation)	
53 Online Review of the question papers	
54 security using HMM in credit card security	
55 Intelligent self adapting e-shopping	
56 social networking and advertisements	
57 Dynamic quiz app	
58 Data visualization tool	
59 Education related infrasture management portal	
60 Schedule and Reminder app	
61 PBAS calculator	

68 Productivity Calculator of staff/students

69	Blood Donation System	
70	Real time video processing	
71	Content Based Image Retrieval	
72	understanding	

Specific Software Requirement	Project Description
	<p>Camera and distance sensor detects and captures object and display on screen and warns the driver</p> <p>Capture temperature and human presence and control home appliances intelligently</p> <p>Control appliances over Internet</p> <p>Employee can put a request for all kind of leave and authorise person can approve it also generate PDF report based on that using digital sign.</p> <p>Class room attendance will be maintained and stored in local database. also system will generate report and save as PDF as per category</p> <p>With this system faculty can arrange small quiz in the class room and students with in the call can give the answer and based on that it will generate the some reports so it will help faculty to select correct teaching learning methodology</p> <p>This system is useful for the faculty members and students to finish their task with in the time. notification can be categorise based on the priority also it should connect with google calendar. i.e IQAC/NAAC data filling deadline, Innovative Assignments deadline</p>
Android	<p>Finding the specific human for the putting request</p> <p>It's a web-based system to calculate Income tax</p>
PHP, MySQL or any other alternative	<p>This web based system will manage seminar topic allocation and all other required tasks</p>
any suitable tool	<p>This web based system is course specific which will mark every aspect of the course activity and track the progress of the course regularly with use of different parameters.</p>
any suitable tool	<p>Work on real dataset of around 1000 students records and explore patterns using data analysis</p>
Assembly, C	<p>Sensor to identify dry dust particle, and push it to bag</p>
Android	<p>Power usage profile generator for mobile use</p>
any suitable tool, cluster	<p>Generate Image installer for simulation environment</p>
FPGA	<p>Capture Hand Gesture on board and play Piano on screen</p> <p>Code optimization using Intel Parallel studio</p>
Android Studio/Java/PHP	<p>Using the concept of Wireless Body Area Network a health monitoring app will assist in recording various biological parameters of human body like pulse rate, blood pressure, body temperature etc. and keep track of the parameters. If some abnormal readings (above or below a threshold value) of parameters is encountered it will acknowledge the person as well as to the registered Hospital/doctor so that immediate action can be taken accordingly.</p>
Sql/PHP	<p>Students profile can be viewed in an Infographic view. A one stop solution to view and assess students progress.</p>
android	<p>app and online software which balances proxy load for all faculties and it should be integrated with timetable software</p>
any	<p>dynamic distribution of supervision of faculties and blocks</p>
	<p>a automated system which controls the electricity as per the requirement</p>
java/python or any other suitable tool	<p>Use different algorithms and convert subtitle from english to hindi</p>
	<p>Capture temperature and human presence and control office appliances intelligently</p>
Android	<p>Shows Nearby Locations Petrol/Diesel/CNG pumps</p>
Java	<p>Prevents the theft occurring, if nobody is at home</p>

	Design an application to organised any event, with the modules like logistics sypport, resource mgmt, finanace mgmt etc
	Design an application to manage the hospital: facilities, resource committee, finanace mgmt etc
	Design Mobile Application for controlling multimedia projector like change slide
PHP, MySQL or any other alternative	Design an application to generate an question paper
PHP, MySQL or any other alternative	Design an application that contain various modules like, automatic marksheet generation, manage marksheet, etc.
PHP, MySQL or any other alternative	The intent of this project is to efficiently distribute files. It shows list of files available with various machines and transfer the file amongs each other.
Web application or App	The intention Of this project is to identify suitable roommate based on their hobby,area of intrest,characteristics etc..
	A system is used to provide healthy communication between student & faculty.student or faculty is required to tap on the NFC Tag using smart phone to send his or her query when faculty is absent in his/her cabin
	Project aim is to design an application which generates department report and department newsletter from the data provided by faculties eg. paper publication, project, innovations in teaching, achivement of faculty etc..
	If students remain absent for three consecutive lecture,practical or tutorial of a subj Faculty memers can post attendance through AMS using mobile
	This application provide information like as Student Attendance, Result of SEE, sessional, class test, Student fees record, faculty detail, college and department contact, time table and backlog detail to their parents so as to enable parents to track the progress of their ward.
Android	voice based attendance system
Android	An android app that tracks the time spent in using different mobile apps and phone
Android	
Java/Oracle	A software used to manage the information about research papers publish by differ
Java/Oracle	A software used to manage information about various STTPs conducted by univers
Java/Oracle	A software used to manege information about project done by M. Tech students.
Android	Image Capture, Face detection and identification
Platform Independent	Nirma Internet Connection Quality Monitoring
Java	Server Side Programming
Matlab / Scilab / Java	Detecting whether the sms is spam or not spam.
	A system to produce Icon, Name, Address from the visiting card and store it in the contact list
Android	
Android	
	Online review of question papers which will grade the quality of the question papaers based upon the contents of the question papers
Web app	Imposing securirty techniques in credit card usage
Web app	
Web app	Dynamic decisions will be adapted based upon the current scenario of the product
Web app	users profile will be monitered and selected advertisements will be made available
app	a dyanic credit based quiz system
Tool	a tool to filter and visualize data
Web App	A common platform for vendor integration related to education
App	Manage an maintain schedules and remind them
Web App	

Desktop application

Mobile app

Web App

A common platform for nirma faculty to complain regarding PC/laptop/resource pro

Matlab

Android

The system targets users' in-hand technologies and allows their participation in any

Any suitable tool

The system aims to compute the productivity of an employee/a student and thereby

	<p>A system in which data of Patient, data of donor, data of blood bank would be saved and will be interrelation with each other</p> <p>DATA OF PATIENT – Patient Name, Patient Id, Patient Blood Group, Patent Disease</p> <p>DATA OF DONAR – Donar Name, Donar Id, Donar Bood Group, Donar Medical report, Donar Address , Donar Contact number</p> <p>DATA OF BLOOD BANK – Blood Bank Name, Blood Bank Address, Blood bank Donars name, Blood Bank Contact Number, Blood Bank Address</p>
--	--

Web

Andriod

Open CV + Qt

Based on the project of Visual Geometry group -texture classification

Open CV + Qt

**Time Duration
Required for Project
Completion**

4-5 months

4-5 months

4-5 months

4 months

4 months

4 months

4 months

4-5 months

4-5 months

semester period

semester period

semester period

semester period

semester period

semester period

semester period

semester period

one semester duration

one semester duration

semester period

5 months

6 months

4-5 months

2-3 months

4-6 months

semester period

semester period

semester period

Semester Period

Semester Period

Semester Period

Semester Period

Semester Period

Semester Period
Semester Period
Semester Period

Semester Period
4 months
4 months

Semester Period
Semester Period
Semester Period
Semester Period
Semester Period

Semester Period
Semester Period

Semester Period

Semester Period
semester perios

blems

Semester Period

Semester Period