

# Sardar Patel Institute of Technology

## Product Development Center (PDC@SP-IT)

Dear Students,

### **Sub: internship at PDC@SP-IT**

Greetings from Sardar Patel Institute of Technology Product Development Center (PDC)!

We hope and pray that all is good with you and your family during this difficult time, as the global COVID-19 pandemic is still peaking around many countries.

Product Development Centre at SP-IT is a zone for innovation, where students under the guidance of senior faculty develop products that have world-changing potential using world-class equipment and software, with backing from the industry for research and development.

We provide mentorship from our senior faculty, consisting of Prof. Y. S. Rao, Prof Rajendra Sawant, and others who have tremendous experience in industry-backed research and a vast portfolio of published papers. Students can also opt to work with startups under SP-TBI or assist external industry experts in their research work. Students also gain access to connections within the electronics industry, a chance to network with like-minded seniors and alumni, and permanent access to the PDC premises along with a certificate to back the work, they have done with us.

Since the PDC undertakes projects which are multidisciplinary in nature, there is no restriction regarding the branch of students who wish to join.

We are happy to announce that once again we are offering the internship program at Sardar Patel Institute of Technology Product Development Center. Looking at the COVID-19 pandemic situation this time we are conducting an online one-month training program from 21st August 2021 onwards, with the "hands-on session" on live online products.

### **Summer Internship program covers in-depth session of:**

1. online theory session taught by experts
2. online learning material
3. virtual lab - remotely write/test/debug code on our lab hardware!

### **Internship program hands-on session of:**

Software & Hardware development and testing on industrial products being developed at the PDC.

We take the pleasure of inviting you to participate in this unique training program conducted by various industry experts.

Look forward to the pleasure of meeting and interacting with you in this training program

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### For Registration:

[https://docs.google.com/forms/d/e/1FAIpQLSdMDoc0jm0y\\_axT9O-7Ofsv4\\_6bLrZNBYS2nDj6PDPGsbl\\_0A/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdMDoc0jm0y_axT9O-7Ofsv4_6bLrZNBYS2nDj6PDPGsbl_0A/viewform)

### Training program is on the following Topics:

- I. Introduction to Software and hardware design, Real-time systems, Minimum system design, Embedded "C" Programming.  
Virtual lab session on Embedded "C" Programming
- II. Soft computing techniques for real-time systems
- III. Digital signal processing in Real-time
- IV. Hardware system Design for Arduino Platform  
Virtual lab sessions on Peripherals, Sensors and Closed loop control system
- V. IoT Protocols  
Virtual lab sessions on IoT Protocols and Cloud based applications
- VI. dsPIC Microchip Architecture, Industrial applications and System Design  
Virtual lab on Peripherals and Industrial Programming Examples
- VIII. Texas DSP TMS 320x28335/28069 Single chip Architecture, Industrial applications and System Design  
Virtual lab on Peripherals and Industrial Programming Examples

### Other Benefits:

1. Participants will be evaluated from time to time and get a Participation Certificate.
2. Industrial visits (In December)
3. Free Rs 10,000/- worth virtual lab hardware setup
4. Internship 2 to 6 months @ PDC
5. Network with like-minded people

### Who should apply:

- ❖ The program is open to all the engineering college students, research scholars, and other working professionals.

**Prerequisites:** Anyone programming language

### Participant Registration Fee:

- ❖ For S.P.I.T students Registration Fee is Rs. 10,000/- + 18% GST per Attendee
- ❖ For other students Registration Fee is Rs. 15,000/- + 18% GST per Attendee

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## Product Development Center (PDC@SP-IT)



### Payment Account Details:

A/C No: 876819488  
IFSC: IDIB000B092  
SP-IT Allied Division,  
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