

## COURSE BENEFITS

- ▶ You will be awarded with the Course Completion Certification
- ▶ You will be trained by the Industrial experts
- ▶ You will gain the complete knowledge on the PCB design concepts which will give you a competitive edge over your fellow graduates when applying for a job
- ▶ You will comprehend the complete step-by-step process that goes into a PCB design
- ▶ You will learn about the different PCB types and designs, Schematic design, component layout, placement methods, and Routing Techniques. You will also learn about the designing circuits and engineering documentation
- ▶ You will be able to create a complete Electronic product (Product Development course)
- ▶ Companies that hire you will not have to undergo a lengthy training program as you have already been taught about the PCB design concepts and intensive hands-on training on designing a complete Electronic Product from scratch

## CURRENT STATS AND FUTURE GROWTH

- ▶ The PCB market is expected to grow to approximately \$ 72 billion in 2026
- ▶ According to the survey, approximately 55% of the market represents the market portion among the five top PCB design firms. The forecast for sales by 2029 is estimated at \$7.92 billion for the computer-aided design market. 35% of this share is attributed to the global CAD market, which will comprise a large portion of those who purchased PCB design software sales in 2021
- ▶ The global market for strategic electronics is expected to be USD 256 bn in 2018 and estimated to grow at a CAGR of ~4% to reach ~USD 422 bn by 2032 with US occupying the largest market share
- ▶ Electronics production has the potential to reach up to US\$260 Bn & generate 1Cr jobs providing an alternate source of employment to IT sector
- ▶ A large organization in India is looking into the possibility of establishing a semiconductor assembly unit which is likely to become functional in 2022, will create more than 4,000 jobs. This move will boost 'Make in India' initiative in the field of electronics. It encourages companies to develop, manufacture and assemble products made in India
- ▶ The market is expected to surge in the coming years, due to the rise in the sales and number of electric vehicles, worldwide

## MEMBER ASSOCIATION



Introductory Offer,  
Limited Seats only



**BUILD YOUR CAREER IN PCB DESIGN & BUILD YOUR OWN PRODUCTS**

**\* SPECIAL OFFERS FOR EDUCATIONAL INSTITUTIONS & STUDENTS \***



**Pramura Software Private Limited**  
Excellence in Engineering Services

**PCB Design Course**  
Offering



*Centre of Excellence for*

**PCB DESIGN & TRAINING**

 **Pramura Software Private Limited**  
Excellence in Engineering Services

### Head Quarters

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Quick Enquiry



www.graphicsystems.in

- ▶ Since 1994
- ▶ Pioneers in PCB designing, Mechanical 2D and 3D modelling for the last three decades
- ▶ Serving the Electronic Industry and the Semiconductor Industry across the USA, Japan, France and Taiwan. Working with a Japanese Company who is a top 10 manufacturer of “ATE Boards” and equipment for the semiconductor industry

### WHY PCB DESIGN PROGRAM

- ▶ Printed Circuit Boards (PCBs) are the building block of most modern electronic devices. The PCB market is forecast to reach \$72.3 Billion by 2026, growing at a compound annual growth rate (CAGR) of 5.3% from 2021 to 2026. PCBs are installed in various electronic products, ranging from consumer gadgets, such as PCs, tablets, smartphones and gaming consoles, to industrial and high-tech products
- ▶ This course will help learners to enhance their skills to design a PCB, Component Assembly, Layout Design and build their career in PCB Designing

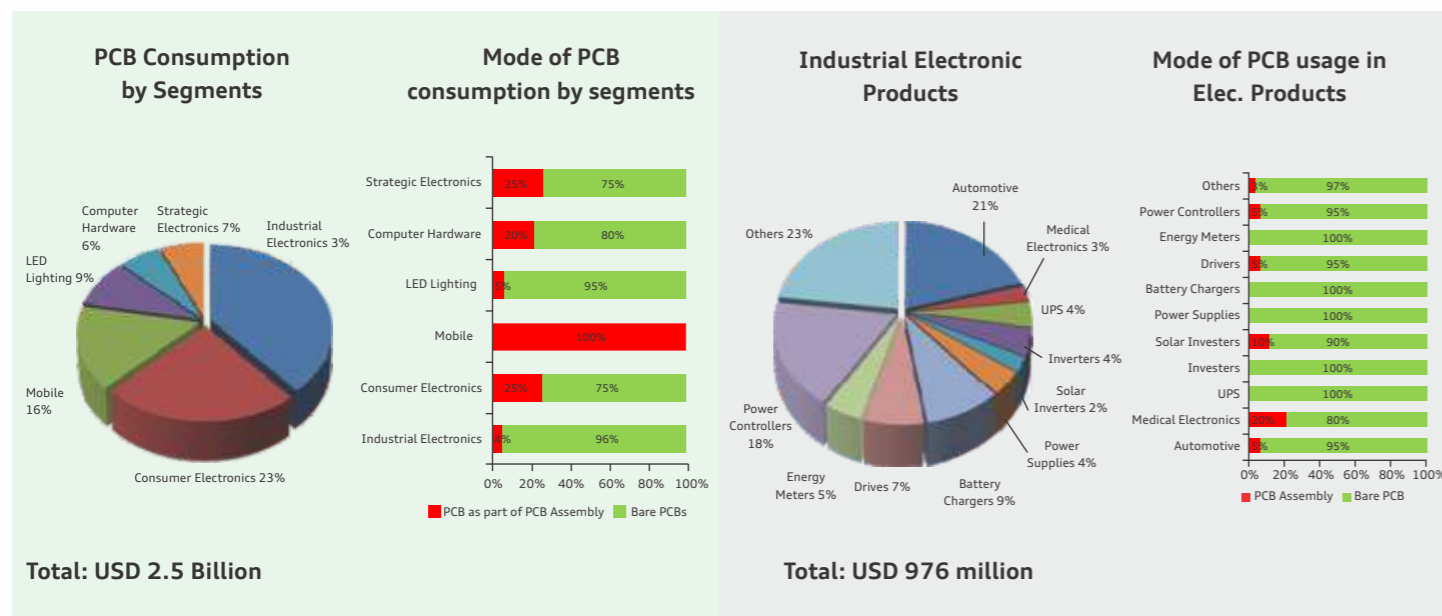
### WHY STUDY AT PRAMURA

- ▶ Pramura has been one of the pioneers in PCB designing at Coimbatore for the past three decades
- ▶ We have been part of the Electronic Industries serving clients across the USA, Japan, France, and Taiwan since 1994
- ▶ We employ Industrial experts who have a deep understanding of the Electronic sector. They are aware of current trends in the industry
- ▶ We provide project-based training starting from the schematic to the final product providing hands-on training for the students and job-seekers
- ▶ Pramura is a great place to understand the PCB Design fundamentals and provides the necessary infrastructure for the students to equip themselves in the competitive environment

### PCB DESIGN INDUSTRY STATISTICS IN INDIA



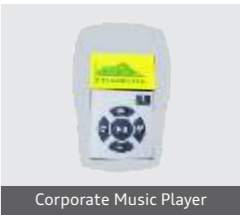
Overall PCB Consumption by different segments

PCB Consumption by Industrial Electronic Products



\* A joint initiative by Pramura Group of Companies

### COURSE CURRICULUM

Course	Introduction to PCB Design	PCB Design Professional	Product Development Course
<b>Course Structure</b>	<ul style="list-style-type: none"> <li>▶ Introduction to basic Electronics, What is PCB and its types, PCB Applications and its types, PCB process Flow, Schematics, Terminologies used, PCB Fabrication, Introduction to Smart Designer PCB design Software</li> <li>▶ Introduction to the Electronic Industry, Job prospects, Skills required by the Electronic industry, Career decisions, Management guidelines for young entrepreneurs</li> </ul>	<ul style="list-style-type: none"> <li>▶ Introduction to basic Electronics, What is PCB and its types, PCB Applications and its types, PCB process Flow, Parts of PCB and its Description, Schematics, Terminologies used, PCB Stack up / Planes and Vias, PCB Fabrication/ High speed and HDI boards</li> <li>▶ Introduction to the Electronic Industry, Job prospects, Skills required by the Electronic industry, Career decisions, Management guidelines for young entrepreneurs</li> <li>▶ Get hands on experience on how to design an Electronic product by using Schematic Software and PCB Design software</li> </ul>	<ul style="list-style-type: none"> <li>▶ <b>IR based Power Saver</b></li> <li>▶ <b>Bluetooth Circuits</b></li> <li>▶ <b>Home Automation (GSM\GPS)</b></li> </ul>    <p>Product Designed &amp; Developed by <b>PRAMURA</b></p>
<b>Duration</b>	<b>8 hours</b>	<b>24 hours</b> (12 hours Theory + 12 hours hands on experience on the PCB Design Software)	<b>16 hours</b> (8 hours hands on experience on the Schematic Design Software + 8 hours on the PCB Design Software)
<b>Price</b>	<b>2000 INR</b>	<b>7000 INR</b>	<b>15000 INR</b>

### TERMS AND CONDITIONS

- ▶ No Registration cost. Registration can be done by direct phone call or whatsapp
- ▶ Completion Certificate will be provided on successful completion of the course
- ▶ Above mentioned course details or description, pricing, timings and duration are subject to change without notice as per the discretion of the management
- ▶ Terms of the offer are non-negotiable
- ▶ You will not be provided with any course materials. You will be trained by the Industrial experts on all the modules
- ▶ The full amount needs to be paid before start of the course
- ▶ GST will be charged extra at 18% of the course fee