



# TS BRIDGE

## Bridging Gaps & Building Dreams

Job-Ready Skills | Live Projects | Assured Placement

Empowering Careers with India's Most Reliable Job Guarantee Program

At **TS Bridge**, we don't just offer courses-we offer careers. We specialize in bridging the gap between academic learning and industry demands through hands-on training, real-time projects, and a written **1-Year Job Guarantee Agreement**.

We don't just train. We mentor, guide, support, and place..

### CONTACT US:



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# Both Online & Offline Training available



Everything is under  
written agreement  
and Bond.



# TS BRIDGE

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### Why to Choose Us ?

**Empowering You from Learning to Earning**

We go beyond teaching—We Mentor, Prepare and Place.

- ◆ Daily Skill Assessments
- ◆ Live Project-Based Learning
- ◆ 1:1 Doubt Clarification
- ◆ Company-Specific Mock Tests & Interviews
- ◆ Workshops, Hackathons & Networking Events
- ◆ 100% Job Placement Guarantee Within 12 Months
- ◆ Corporate Partnerships for Direct Hiring
- ◆ Flexible Batch Timings (Weekdays & Weekends)
- ◆ Soft Skills, Resume Building & LinkedIn Branding

**Choose Your Path – IT, Non-IT, or Pharma – We've Got You Covered**

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# TS BRIDGE

## Bridging Gaps & Building Dreams

### Our Model's for Your Career Goals

#### **1. Training + Internship + Job Guarantee:**

Complete Career Program with Written Agreement. This is our flagship model designed for freshers and job seekers. It includes expert training, real-time internship and a legally bound 1-year job guarantee agreement.

#### **2. Training + Internship + Job Support**

Skill-Building with Career Assistance & Designed for learners who want in-depth training and hands-on experience, with strong job support (without legal job guarantee).

#### **3. Job Support for Skilled Professionals:**

Direct Placement Assistance for Ready Talent. This model is for skilled individuals who need help with job placement. Ideal for those who have technical knowledge but need hiring support.

**A Career, Not Just a Course – Your Job is Our Commitment.**

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## Bridging Gaps & Building Dreams

### Vision:

To bridge the gap between academic learning and professional success.

### Mission:

To empower students with high-demand skills and provide companies with job ready, reliable talent

### Extra Benefits of Every Course:

- Includes Capstone Projects & Internships
- Certificate of Completion + Job Guarantee Agreement
- Live Sessions + 24/7 LMS Access
- Resume, Interview, and Career Guidance from Day 1
- Project Portfolio Development for Placements

**Backed by a Legal Agreement – No Empty Promises.**

<https://tsbridgeedu.in/>

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# Course's we offer

Bridging Gaps & Building Dreams

## IT

- FullStack Development
- Data Science
- Generative AI (AI/ML)
- UI/UX Design
- Cyber Security

## NON-IT

- Digital Marketing
- Human Resource
- Accounting
- Finance
- All kind of Non-IT job supports too

## PHARMACY

- Clinical Research
- Medical Coding

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Register now!  
for first 10  
candidates gets  
15% discount!



# FullStack Development

- HTML:** Introduction to Web Development  
HTML, Fundamentals Intermediate HTML
- CSS:** CSS Basics Styling Websites with CSS  
CSS Layout with Flexbox & CSS Grid  
Building a Real-World Website  
Responsive Web Design with CS
- Java Script :** Java Script Fundamentals  
DOM Manipulation and Event Handling in JavaScript  
JavaScript Runtime and Execution Context  
Data Structures, Operators, and Strings
- Git & Github :** Introducing Github and Pushing Code to the Remote Repository  
Managing Code with Git Branches

- Linux:** Introduction to Linux Navigating the File System File and Directory Operations
- Database foundations:** Introduction to Databases Database Management Systems (DBMS) Overview Relational Database Concepts Basic SQL Queries
- Deployment / cloud :** Introduction to Cloud Computing Types of Cloud Services (IaaS, PaaS, SaaS) Cloud Deployment Models (Public, Private, Hybrid) Basic Concepts of Deployment (Continuous Integration, Continuous Deployment)
- API consumption :** Introduction to APIs Understanding RESTful APIs API Authentication and Authorization Making API Requests and Handling Responses
- AI tools - codex types:** Introduction to AI Tools Types of Codex Models Uses and Applications of Codex Tools Comparison of Codex with Other AI Models
- Build and deploy project:** Project Planning and Setup Development and Coding Version Control and Collaboration Testing and Debugging ,Deployment Preparation Deployment Process Monitoring and Maintenance
- MERN Structure :** Advanced JavaScript Functions, Arrays & UI design Numbers, Dates, and Timers Advanced DOM and Events
- ES6 :** Object Oriented Programming with JavaScript Asynchronous JavaScript - Promises, Async / Await, and AJAX Developing a Modern JavaScript Application
- React.js:** React Hooks UseEffect, UseReducer, and Context in React Class-Based Components in React React Internals and Performance Optimization Building Complex Forms and invoice application React Routing, Redux Authentication and Route Protection React Testing
- Node.Js:** HTTP module Express.js Student Management Application Bcrypt Authentication Rest API's creation Node Module System File system & streams Events Understanding Cluster & Working threads

**Express.Js** Introduction to Express  
Building Restful APIs using express  
Express Middlewares  
Rendering/Template engines Routing

**MongoDB:** Database Integration -  
MongoDB CRUD with Mongoose &  
MongoDB Mongo Data Validation  
Modeling Relationships Profanity  
Filtering and Post Moderation Caching &  
Performance Protecting express App

**Testing :** Introduction to Testing Unit  
Testing with Mocha Integration Testing  
with Chai Mocking and Stubbing Testing  
Asynchronous Code Test-Driven  
Development (TDD)

**Testing :** Introduction to CI/CD Setting  
Up a CI/CD Pipeline & Automated Testing

**Cloud :** Deployment Automation  
Introduction to AWS for MERN EC2  
(Elastic Compute Cloud), S3 (Simple  
Storage Service), RDS (Relational  
Database Service), Elastic Beanstalk,  
Lambda Functions API Gateway,  
CloudFront IAM (Identity and Access  
Management) CloudWatch

#### **Projects:**

**Portfolio Website:** HTML, CSS,  
JavaScript ,React.js (optional) Bootstrap  
(optional)

**E-commerce Website :** React.js,  
Node.js ,Express.js ,MongoDB RESTful  
APIs.

**Social Media Application:** React.js,  
Express.js, Node.js, MongoDB, RESTful  
APIs Authentication (JWT)

**Task Management System:** React.js  
Node.js Express.js MongoDB Bootstrap  
RESTful APIs Authentication (JWT)

**Real-Time Chat Application :** React.js  
Node.js Express.js MongoDB Socket.io  
(for real-time communication)

**Blog Platform :** React.js Node.js  
express.js MongoDB RESTful APIs  
Authentication (JWT)



# Data Science

**SQL Basics:** SELECT statements, Subqueries , Common Table Expressions, and Windows functions

**Advanced Excel :** Basic functions: SUM, AVERAGE, COUNT, etc. .advanced functions like VLOOKUP. Creating PivotTables and Pivot Charts, Text functions, date functions, and data manipulation, macros and basic automation techniques

**Statistics :** Sample vs population Numerical(continuous and discrete) and categorical, nominal, ordinal, interval scale, ratio scale Measures of central tendency Measures of dispersion Important terminology, Types of probability, Normal distribution & Z distribution Correlation, Z-test, T-test, Anova and chi-squared test

**Mini Capstone Project:** This capstone project is designed to combine practical skills in SQL, advanced Excel techniques, and foundational statistics to analyze and interpret data effectively.

Participants will leverage these tools to conduct comprehensive data analysis, uncover patterns, and make data-driven decisions.

**Power BI Fundamentals :** Introduction to Power BI Building Basic Visualizations Data Modeling in Power BI ,Advanced Visualizations Introduction to Dataflows in Power BI, Advanced Data Cleaning and Transformation Integrating Dataflows with Power BI. Introduction to DAX Power BI Service and Sharing Performance Optimization Power BI Best Practices .

**Python :** All basic to advance concepts of python and all modules which are required for implementation data science projects.

**Power BI Automate, AI Builder and Dataflows :**Custom Applications with Power Apps

**Microsoft Dataverse and Microsoft Fabric :** Understanding Microsoft Dataverse Integrating Dataverse with Power BI Introduction to Microsoft Fabric Custom Applications with Power Apps Advanced Data Integration Power Platform Solutions

**Machine Learning:** Implementation of all machine learning algorithms and how to make it possible to learn pattern of data . and find its predictability.

**Deep Learning:** all the neural networks implementation to deal with any kind of data.

**Bonus:**

Storytelling

Databricks

**SQL extra resources**

GPT

Snowflake

Deep Learning

R

NLP

Pyspark

Azure Data Factory



# Generative AI (AI/ML)

**python:** Gain a basic understanding of Python programming

**Machine Learning:** Introduction to machine learning concepts

**Introduction to Generative AI :** Overview of Generative AI, Generative AI vs. Traditional AI, Use Cases, Understanding AI: Basics and Use Cases, Differentiating ML, DL, and AI

**Basics on NLP I :** What is NLP, History of NLP, NLP End to end workflow, Stopwords, Tokenization, Stemming, Lemmatization, POS tagging, TFIDF

**Basics on NLP 2:** One hot encoding, Bag of words, Unigram, Bigram, ngram, Word embeddings Skip Gram, Word2vec model

**NLP Models:** RNN, LSTM Models & GRU Models, Transfer learning

**Lab:** Hands-on experience with NLP models.

**Advance NLP :** Encoder-decoder architecture, Attention mechanism, Transformer, BERT

**Lab introduction: Text Translation using Encoder-decoder Architecture :**

Hands-on experience with text translation using the encoder-decoder architecture.

**Understand the working of LLMs :**

LLM, Use Cases, Text Generation, Chatbot Creation, Foundations of Generative Models & LLM, Generative Adversarial Networks (GANs), Autoencoders in Generative AI, Significance of Transformers in AI, "Attention is All You Need" - Transformer Architecture, Reinforcement Learning, RLHF

**LLMs Foundation Models :**

Encoder Models i.e., BERT, Decoder Models GPT, Encoder Decoder Model i.e., T5

**Real World Applications and Case Studies:**

Real-world applications and case studies of LLM's

**Fine Tuning and Evaluating LLMs:**

Instruction fine-tuning, Fine-tuning on a single task, Multi-task instruction fine-tuning, Model evaluation, Benchmarks, Parameter efficient fine-tuning (PEFT), PEFT techniques 1: LoRA, PEFT techniques 2: Soft prompts, Lab 2 walkthrough

**Evaluation Matrix:**

Rouge1, BLEU, Meteor, CIDEr

**Reinforcement Learning and LLM Powered Applications**

Reinforcement Learning, LLM Applications

**Deployment and Hardware Considerations**

Deployment Strategies, Hardware Requirements

**Langchain**

Langchain: A Framework for LLMs

**LLMOps**

LLM Operations, Scalability, Best Practices

**Introduction to Generative AI on Cloud: Hugging Face / Hugging Face Hub**

Hugging Face, GCP and Hugging Face Overview

**Generative AI on Cloud - AWS**

AWS Sagemaker, AWS Jumpstart, AWS Bedrock

**Ethics and Responsibility in Generative AI**

Responsible AI, Google's Approach, Ethical Issues

**Capstone Project**

Final project to apply the skills learned



# Cyber Security

## Introduction to Cybersecurity:

- Define cybersecurity and its importance
- Identify common threats and vulnerabilities
- Discuss cybersecurity best practices

## Network Fundamentals:

- Explain network basics (TCP/IP, OSI model)
- Understand network devices (routers, switches, firewalls)
- Discuss network protocols (HTTP, HTTPS, FTP)

## Operating System Security:

- Compare and contrast Windows, Linux, and macOS
- Discuss user rights and permissions
- Explain system hardening techniques

## Cryptography:

- Define cryptography and its importance
- Explain encryption and decryption algorithms (AES, RSA)
- Discuss key management and digital signatures

## Ethical Hacking Fundamentals :

- Define ethical hacking and its purpose
- Explain the ethical hacking methodology (reconnaissance, scanning, enumeration, exploitation, post-exploitation)
- Discuss legal and ethical considerations

## Reconnaissance Techniques :

- Gather information using passive and active techniques (Google hacking, DNS enumeration, who is lookup)
- Identify potential vulnerabilities and targets

## Network Scanning and Enumeration :

- Use tools like Nmap and Nessus to scan networks and identify open ports and services
- Enumerate services and gather information about running applications

## Vulnerability Assessment and Exploitation:

- Identify vulnerabilities using tools like Metasploit and Burp Suite
- Exploit vulnerabilities to gain unauthorized access

## Web Application Pentesting :

- Understand the OWASP Top 10 vulnerabilities
- Perform manual and automated web application testing
- Identify and exploit vulnerabilities like SQL injection, XSS, and CSRF

## Mobile Application Pentesting :

- Understand mobile app security threats
- Perform manual and automated mobile app testing
- Identify and exploit vulnerabilities like insecure storage and network traffic

## Social Engineering :

- Define social engineering and its techniques (phishing, pretexting, baiting)
- Recognize social engineering attacks and protect against them

## Security Operations Center (SOC) :

- Understand the role of a SOC
- Discuss SOC tools and technologies (SIEM, IDS, IPS)
- Analyze security events and incidents

### **Malware Analysis :**

- Define malware and its types (viruses, worms, trojans)
- Analyze malware behavior and identify threats

### **Incident Response :**

- Develop an incident response plan
- Handle security incidents effectively
- Conduct incident investigation and analysis

### **Cloud Security :**

- Understand cloud computing and its security challenges
- Discuss cloud security best practices and compliance standards (AWS, Azure, GCP)

### **Data Privacy and Protection :**

- Explain data privacy laws and regulations (GDPR, CCPA)
- Implement data protection measures (encryption, access controls)
- Handle data breaches effectively

### **Ai in Cyber security:**

- Discuss Ai security threats and controls
- Implement Ai in cyber security

### **Security Auditing and Compliance:**

- Understand security auditing and compliance frameworks (ISO 27001, NIST CSF)
- Conduct security audits and assessments
- Ensure compliance with regulations and standards

### **Capstone Project :**

- Conduct a comprehensive cybersecurity project (e.g., pentesting a network, developing a security policy)
- Demonstrate practical skills and knowledge

### **# Additional Topics :**

- 1. VAPT on Network:** Vulnerability Assessment and Penetration Testing on a network, including methodology, tools, and benefits.
  - 2. VAPT on Web Application:** Vulnerability Assessment and Penetration Testing on web applications, including methodology, tools, and benefits.
  - 3. VAPT on Mobile Application:** Vulnerability Assessment and Penetration Testing on mobile applications, including methodology, tools, and benefits.
  - 4. Interview Preparation:** Preparing for a cybersecurity interview, including common questions, tips for acing the interview, and recommended resources.
  - 5. Internet of Things (IoT) Security:** Securing IoT devices and networks.
  - 6. Blockchain Security:** Securing blockchain-based systems.
  - 7. Cybersecurity Frameworks and Standards:** Understanding cybersecurity frameworks and standards, such as NIST and ISO 27001.
- Cybersecurity Awareness and Training:** Educating users on cybersecurity best practices.



# UI/UX Design

**UX Research :** Difference Between UI/UX, Business Requirement Gathering, User Research, User Interview Techniques.

**Data Analysis :** Research Data AnalysisB 6 Competitor Bench marking 6 Heuristic Analysis

**Design Strategy/Direction:** Ideation (up to 3 techniques) , Whiteboarding, Journey Map, Motivation mapping, Empathy mapping process, Information Architecture, Navigation, Content through Card Sorting, Sitemap, User Flows

## UI Tool :

Figma  
Miro  
Balsami  
Creatie a.i

## User Interaction :

Typography Colour Theory  
Navigation, Gestalt Principle,  
UI Principle, Design System, Grid Line,  
Responsive system, Prototyping,  
Wireframe, UI Screens.

## UX Psychology:

Heuristics Principle, UX Law, Minimalism and Maximalism, cognitive bias psychology

## Hands on Project:

**Website Designing**  
**Mobile App**  
**Android**  
**Mobile App Ios**  
**Portfolio**  
**Resume Preparation**  
**Interview Preparation**

## UX Research :

1. UX introduction
- 2.Primary Research
- 3.Secondary Research
- 4.Quantitative research
- 5.Qualitative research
- 6.Affinity Mapping
- 7.IDEATION & BRAINSTORMING
- 8.Competitive analysis
- 9.Empathy mapping
- 10.user persona
- 11.user story
12. information architecture
- 13.user flow
- 14.wireframes

## User Interface (Designing) :

1. Grid system
- 2.Color Psychology
- 3.Typography
- 4.buttons
5. Material Design
6. PSYCHOLOGY PRINCIPLES ALL UI DESIGNER
- 7.Visual appearance
- 8.Interview Questions
- 9.Soft copy



# Clinical Research

## Introduction to Clinical Research :

- Why and when clinical research is needed
- History of Clinical Research
- Drug Development Stages
- Drug Discovery Process
- Pre-Clinical Trials

## Guidelines & Regulatory Bodies in Clinical Research :

- Overview of guidelines in clinical research
- ICH GCP Principles
- Indian GCP Principles
- ICMR Principles
- Schedule Y and its Appendix
- Key regulatory authorities: FDA, EMA, MHRA, TGA, etc.
- Latest amendments in clinical research

## Phases & Types of Clinical Research:

- Phase 0 to Phase IV studies
- Subclasses of clinical research phases
- Classification based on researcher behavior
- Observational and experimental/interventional studies
- Classification based on research purpose
- Randomised controlled trials
- Blinded and open-label studies

## Stakeholders in Clinical Research:

- Regulatory Authorities
- Institutional Review Board (IRB)/Independent Ethics Committee (IEC)
- Sponsors, CROs, SMOs
- Investigators and Patients

## Essential Documents and Trial Master File (TMF):

- Trial Protocol
- Informed Consent Form and Patient Information Sheet (PIS)
- Investigator's Brochure
- Dossiers and Case Report Forms
- Managing the Trial Master File

## IRB/IEC Composition and Responsibilities:

- Structure and functions of IRB/IEC
- Key responsibilities in clinical research

## Clinical Research Process Flow:

- Overview of clinical research process and flowcharts
- Site-level clinical research process

## Clinical Data Management Introduction:

- Introduction to Clinical Data Management (CDM)
- Role and importance in clinical research

## Principles of Clinical Trials:

- Key principles guiding clinical trials
- Ethical and scientific considerations

## 21 CFR Part 11 Introduction:

- Regulatory requirements for electronic records and signatures

### **Good Clinical Practice (GCP):**

- GCP principles and their application in clinical trials

### **Clinical Data Management Phases:**

- Overview of CDM phases from start-up to close-out

### **Start-Up Phase in Clinical Data Management:**

- eCRF (electronic Case Report Form) design
- Data cleaning specifications (DCS)
- Data validation specifications (DVS)
- eCRF completion guidelines
- User Acceptance Testing (UAT)
- Test case writing

### **Conduct Phase in Clinical Data Management:**

- Introduction to conduct phase activities

### **Discrepancy Management:**

- Handling and resolving data discrepancies

### **Data Set Validation and Offline Listing Review:**

- Data set validation review
- Offline listing review procedures

### **Third-Party Vendor Reconciliation:**

- LAB, PK, and IWRS reconciliation processes

### **SAE (Serious Adverse Event) Reconciliation:**

- Managing and reconciling SAE data

### **Study Close-Out Phase:**

- Introduction and activities for study close-out





# Medical Coding

## **The World of USA Healthcare:**

Daily activities in US medical facilities  
Responsibilities of Medical coders and Billers  
Career opportunities available to Medical Coding and Billing specialists

**Medical Terminology :** Introduction to Medical Terminology Root words, Suffixes, Prefixes and Combining Vowels Medical Terminology:  
Dividing and Combining Terms Abbreviations Documentation of Medical Records

**Human Anatomy & Physiology :** Digestive System Nervous System Respiratory System Urinary System Musculoskeletal System Endocrine System Cardiovascular System Blood and Blood-Forming Organs Lymphatic System Reproductive Systems

## **Medical Ethics :**

Confidentiality with Medical Records (HIPAA Guidelines) Insurance Audits Legal Concepts Involved

## **Diagnostic Coding :**

Introduction to Diagnostic Coding ICD-10-CM Coding Manual Introduction

## **ICD-10-CM Diagnosis Coding:**

Diagnosis Coding Procedures Basic Coding Exercises

## **ICD-10-CM Coding to Infections of Blood diseases :**

Coding of endocrine, nutritional, metabolic, and blood diseases

## **ICD-10-CM Coding to Mental disorders to Respiratory diseases :**

Nervous system, Circulatory or Blood system Respiratory system

## **ICD-10-CM Coding to Pregnancy & Genitourinary disorders:**

Puerperium Complications of Pregnancy

## **ICD-10-CM Coding from Skin to Perinatal period**

Musculoskeletal system Congenital abnormalities How to code Skin related diagnoses?

## **ICD-10-CM Coding to Symptoms and Poisoning**

Coding for Injuries Poisoning

## **CPT Coding**

Differentiate between CPT and HCPCS codes Format of the CPT Coding Manual Basic steps of CPT coding

## **CPT Coding from Integumentary System**

This module helps the learner to understand codes related to the integumentary system Coding like Biopsies, Skin Lesions, Excisions, Burns, Breast Procedures and Skin Grafts.

## **CPT Coding from Reproductive System to Operating Microscope**

Endoscopic Procedures related to the Endocrine & Nervous Systems Visual and Auditory Systems Coding for Microscopic Procedures

## **CCPT Coding for Anesthesia, Radiology, Pathology & Laboratory and Medicine**

Coding Radiology Procedures Radiology Terms, Sections, Subsections and Guidelines Guidelines and Coding information for Pathology Anesthesia Modifiers

## **CPT Coding for Evaluation & Management Services**

Documentation Guidelines Evaluation & Management Level sections

## **CPT Comprehensive Surgery coding**

**Musculoskeletal System**  
**Digestive System**

**Reproductive System and Urology**  
**Cardiovascular and Pulmonary Systems**

**HCPCS Coding**  
**Medical Coding Future Practice**



# Digital Marketing

## Introduction to Digital Marketing:

- Definition and significance of digital marketing
- Evolution and landscape of digital marketing
- Digital vs. traditional marketing
- Key drivers and trends
- The digital consumer and online communities

## Digital Marketing Strategy & Planning:

- Understanding digital users and market segmentation
- Consumer decision journey
- POEM framework (Paid, Owned, Earned Media)
- Crafting a digital marketing plan
- Digital advertising market overview

## Website Planning & Development :

- Website objectives and essentials of design
- Domain names, hosting, and CMS overview
- Landing pages and user experience trends
- Website creation and SEO audit basics

## Search Engine Optimization (SEO):

- SEO fundamentals and importance
- Keyword research and content optimization
- On-page and off-page SEO techniques
- Google Webmaster Tools and analytics overview

## Search Engine Marketing (SEM) & Online Advertising:

- Introduction to SEM and online advertising
- PPC campaigns (Google Ads, Bing Ads)
- Ad formats, targeting, and budgeting
- Display advertising and programmatic buying

## Social Media Marketing:

- Facebook, Instagram, LinkedIn, Twitter marketing
- Content creation, campaign management, analytics
- Influencer and community marketing

## Email & Affiliate Marketing:

- Email marketing strategy and tools (Mailchimp, etc.)
- Building and segmenting email lists
- Affiliate marketing models and best practices

## Content Marketing & Copywriting:

- Content creation strategies for digital channels
- Blogging, video, and visual content
- Copywriting for web and social media

## Mobile & Video Marketing:

- Video advertising (YouTube, social platforms)
- Creating engaging and effective video content

## Analytics & Performance Measurement:

- Introduction to web and campaign analytics
- Google Analytics fundamentals
- KPIs, conversion tracking, and reporting

## eCommerce & Digital Selling:

- eCommerce platforms and digital sales funnels
- eCommerce marketing tactics (SEO, SEM, SMM)
- Customer journey and conversion optimization

## Digital Marketing Trends & Case Studies:

- Latest trends and innovations in digital marketing
- Case studies from leading brands and campaigns
- Legal, ethical, and privacy considerations