

ESTABLISHED : 1995

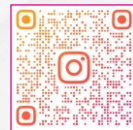


Don't Rush to join us.....!

Take the advice of our counsellor, attend the demo, talk to our faculties get satisfied with our staff. if you are ambitious enough and want to make position in I.T than definitely join us.



Follow us on :



INSTAGRAM



FACEBOOK

📞 7975623738, 8867712777

📍 Opp. Sardar Ground, Govekar Building,
Ground Floor, Kaktives Road, Belagavi.



SCAN THIS FOR LOCATION



Prospectus



PROTECH
COMPUTER ACADEMY

THE FUNDAMENTALS OF COMPUTERS The fundamentals of computers include understanding their components, how they interact, and how they function. KEY ASPECTS OF COMPUTER FUNDAMENTALS: Data Processing : The CPU (Central Processing Unit) is the brain of the computer, executing instructions and processing data. Memory : Memory stores data temporarily for quick access. Storage : Storage devices like hard drives and SSDs store data permanently. Operating System : The operating system manages hardware and software resources and provides an interface for users to interact with the computer, using single user and multi user operating system. Computer Architecture : Understanding how the different components of a computer are organized and work together is crucial for understanding how computers function, generations and types of computers.	YOUTUBE CHANNEL CREATION Channel Fundamentals : This module covers the basics of starting a YouTube channel, including niche selection, branding, and platform setup. Content Planning and Creation : This section focuses on identifying video topics, creating compelling content, and understanding the importance of storytelling. YouTube SEO : Learn about optimizing video titles, descriptions, tags, and thumbnails to improve discoverability and search engine ranking. Monetization and Growth : This module covers monetization options like AdSense, sponsorships, and affiliate marketing, as well as strategies for building an audience and growing the channel.
MICROSOFT OFFICE WITH AI TOOLS Microsoft Copilot : This AI assistant can help with various tasks within MS Office applications like Word, Excel, & PowerPoint, including generating text, summarizing information, and automating tasks. ChatGPT Integration : It focuses on using ChatGPT to enhance MS Office skills, such as automating data entry, creating content, or generating reports. Advanced Excel with AI These courses often cover using AI to analyze data, create interactive dashboards, and automate tasks in Excel. Microsoft Excel : Spreadsheet Creation and Formatting : Creating spreadsheets, formatting cells, and numbers. Data Entry and Management : Entering, editing, and managing data. Formulas and Functions : Creating and using formulas and functions. Data Analysis and Visualization : Using filters, sorting, subtotal reports, and creating charts/graphs. Advanced Features : Working with PivotTables, linking multiple sheets, and applying Excel solutions to business cases, Functions like vlookup, hlookup. Microsoft PowerPoint : Presentation Creation and Formatting : Creating presentations, formatting slides, and using slide masters. Content Integration : Importing content from Word, integrating Excel data, and using PowerPoint add-ins. Slide Design and Presentation Designing effective slides, using visual aids, and delivering presentations. Advanced Features : Applying transitions and animations, managing multiple presentations, and using multimedia.	NUDI AS A SOFTWARE : KANNADA TYPING Nudi software allows users to type in the Kannada script on computers, supporting various applications and platforms. Font Encoding: It is a font-encoding standard that helps manage and display Kannada characters. TALLY PRIME WITH GST Course Content : Tally Prime Basics: Learn how to create, manage, and modify ledgers, groups, master files, and vouchers. GST Compliance : Understand the intricacies of GST, including registration, filing returns. Accounting Principles : Gain a solid understanding of accounting basics, bookkeeping, and financial statement preparation. Inventory Management : Learn how to manage inventory, stock groups, and units of measure. TDS and TCS : Understand how to handle Tax Deducted at Source (TDS) and Tax Collected at Source (TCS). Payroll Management : Learn how to manage payroll, including PF, ESI, and other statutory deductions. Reporting and Analysis : Learn to generate reports, analyze financial data, and make informed business decisions.
COURSE : DIPLOMA IN OFFICE AUTOMATION	
DURATION : 6 MONTHS END PROFILE : COMPUTER OPERATOR	
INTERNET Web Browsing and the World Wide Web (WWW) : What is the World Wide Web ? Web browsers and their functions, Using a search engine : Understanding Uniform Resource Locators (URLs) : Domain names and IP addresses. Web pages and websites : Internet Services and Applications: E-mail basics : File Transfer Protocol (FTP) Hyperlinks, Understanding passwords and security, Introduction to HTML (HyperText Markup Language).	PROGRAMING WITH C, C++ INTRODUCTION TO C : History and significance of C language. Features and applications of C. Structure of a C program. Compilation and execution process. Keywords and identifiers. Basic syntax and structure. Fundamental Concepts : Data types (int, float, char, double, etc.). Variables and constants. Input and output functions (printf, scanf, etc.). Operators and expressions (arithmetic, relational, logical, assignment). Control flow statements (if, else, switch, for, while, do-while). Functions and modular programming. Intermediate C Programming : Arrays and strings. Pointers and memory management. Structures and unions. File handling (reading, writing, and manipulating files). Dynamic memory allocation (malloc, calloc, realloc, free). INTRODUCTION TO C++ : It is a powerful, general-purpose programming language known for its flexibility, efficiency, & low-level access. It's a superset of C, meaning it includes all of C's features while adding object-oriented programming capabilities.

system software, and applications requiring high performance. **Key Features and Characteristics** : **Object-Oriented Programming (OOP)** : C++ supports object-oriented programming principles like classes, objects, inheritance, and polymorphism, enabling modular and reusable code.

Applications : Game Development : C++ is a popular choice for game development due to its performance and low-level access. **System Software** : It's used in operating systems, device drivers, and other system-level software. **High-Performance Applications** : C++ excels in tasks requiring speed and efficiency, such as financial modeling, scientific simulations, and high-frequency trading. **Web Browsers** : Many web browsers utilize C++ for performance-critical components.

COURSE : DIPLOMA IN COMPUTER OPERATOR & PROGRAMER

DURATION : 12 MONTHS | END PROFILE : OPERATOR / PROGRAMER

PYTHON

Introduction to Python : This module covers the basics of Python programming, including installation, syntax, & the Python interpreter. **Variables and Data Types** : Understanding different data types (integers, floats, strings, booleans) & how to use variables is crucial. **Operators** : Arithmetic, comparison, logical, and assignment operators are essential for building expressions and controlling program flow. **Control Flow** : This module covers conditional statements (if, elif, else), loops (for, while), and break/continue statements. **Functions** : Defining and using functions, including function parameters and return values, is a fundamental programming concept. **Data Structures** : This module introduces lists, tuples, dictionaries, and sets, which are used to organize and manipulate data. **Object-Oriented Programming (OOP)** : Learning about classes, objects, inheritance, polymorphism, and encapsulation is essential for building complex programs. **File Handling** : This module covers reading, writing, and appending data to files. **Modules and Packages** : Understanding how to use built-in modules and external libraries is important for extending Python's capabilities. **Exception Handling** : Learning how to handle errors gracefully with try-except blocks is crucial for writing robust code. **Data Science** : This module might cover libraries like NumPy, Pandas, and Matplotlib for data analysis and visualization. **Database Interaction** : This module might cover connecting to and querying databases using Python.

POWER BI

Introduction to Power BI : Understanding Power BI Desktop, the Power BI Service, and the overall architecture. **Module 1** : Introduction to Power BI: Overview of Power BI, its components, and its applications. **Module 2** : Data Loading and Transformation: Connecting to data sources, using Power Query, and transforming data. **Module 3** : Data Modeling: Creating relationships, building data models, and using DAX. **Module 4** : Report and Dashboard Design: Creating visualizations, filters, and dashboards. **Module 5** : Publishing and Sharing Reports: Publishing to the Power BI Service, configuring workspaces.

FULLSTACK WEB DEVELOPMENT

Introduction to Java : Module 1: Advanced JavaScript & Front-EndES6+ (Arrow Functions, Destructuring, Spread/Rest, Modules, Error Handling)Asynchronous JavaScript (Callbacks, Promises, Async/Await)Single Page Applications (SPA) & Virtual DOMReactJS (Components, Hooks, React Router)Module 2: Server-Side Development & APIsNode.js & Express.js (Server Setup, Middleware)RESTful APIs (CRUD Operations, Routing, HTTP Methods)Authentication & Security (JWT, Sessions, Cookies, bcrypt)Module 3: Database ManagementSQL Databases (PostgreSQL/MySQL, Schema Design, Joins, Aggregations)MongoDB & Mongoose (Models, Database Connectivity)API & Database IntegrationModule 4: Version Control & DeploymentGit & GitHub (Branching, Merging, Collaboration)Cloud Deployment (Vercel, Netlify, Render, Railway, AWS)Environment Variables & Configuration Management

GRAPHIC DESIGNING

Introduction to CorelDRAW Software : Overview of tools, interface, and basic vector drawing techniques. **Exploring the CorelDRAW Screen** : Understanding the workspace, toolbars, & docks. **Navigating and Viewing Drawings** : Zooming, panning, & using different viewing modes. **Customizing Options** : Using multiple workspaces, customizing toolbars, using shortcuts, & saving defaults. **Page Setup and Management** : Setting page dimensions, adding and deleting pages, & working with grids. **Drawing and Shaping Objects** : Using freehand, lines, polylines, polygons, & shape tools. **Selecting and Manipulating Objects** : Selecting, moving, copying, deleting, and sizing objects. **The Text Tool** : Creating and editing text. **Artistic Text** : Converting text to artistic text. **Text Formatting** : Changing font, size, color, & applying effects. **Ruler and Grids**: Using rulers and grids for precise positioning and alignment. **Text Attributes** : Understanding different text types (paragraph, artistic) and applying text effects. **Working with Layers** : Understanding layers, managing layer properties, and using the object manager. **Color Management** : Working with CMYK, RGB color modes, and creating custom color palettes. **Bitmap and Vector Effects**: Converting bitmaps to vectors, applying bitmap effects, and using PowerTRACE. **Practical Projects and Assignments** : Final Project: Comprehensive design and illustration project. **Logo Design** : Creating a logo for a fictional company. **Business Card and Brochure Design**: Designing a business card & a brochure. **Web Banner Creation**: Creating a web banner for a fictional product or service.

PHOTOSHOP Image Editing and Manipulation : Photoshop excels at correcting color, removing blemishes, and enhancing the overall appearance of images. It allows for various image manipulation techniques, including cropping, resizing, and applying filters. Layers, masks, and adjustment layers are key features for non-destructive editing, allowing designers to make changes without altering the original image. **Design Creation** : Photoshop can be used to create new designs from scratch, including logos, mockups, and social media graphics. It offers a wide range of brushes, effects, and filters to add creative elements to designs. The ability to create and manipulate layers allows for complex compositions and intricate designs.

Canva : Introduction to canva design essentials Getting started and creating designs in canvaWorking with images in canva, cropping images, using frames, exporting JPG's and PNG's from canva, creating social media designs using styles and color pallets, graphics in canva.	HARDWARE & NETWORKING <u>Basic Components</u> : Understanding the functions of CPU, RAM, Motherboard, Power Supply, storage devices (HDD, SSD), and peripherals. <u>Assembling and Troubleshooting</u> : Practical experience in building and maintaining a computer system, including identifying & resolving hardware issues. <u>Operating Systems</u> : Familiarity with installing and configuring operating systems like Windows and Linux. <u>Basic Electricity and Electronics</u> : Familiarity with electrical concepts like AC and DC, and common electronic components. <u>Hardware Configuration</u> : Learning how to configure hardware components and devices. <u>Networking Fundamentals</u> : Network Architecture : Understanding different network types (LAN, WAN, MAN), topologies, and network devices (routers, switches, hubs). <u>Cabling and Connectors</u> : Knowledge of different types of network cables (UTP, fiber optic) and their connectors (RJ-45, RJ-11). <u>TCP/IP Model</u>: Understanding the layers of the TCP/IP model and their functions. <u>IP Addressing</u>: Learning how to assign IP addresses, subnetting, and DNS. <u>Network Security</u> : Understanding basic security measures like firewalls and access control. <u>Wireless Networking</u> : Knowledge of wireless technologies like Wi-Fi and Bluetooth. <u>Network Troubleshooting</u> : Developing skills to diagnose and fix network connectivity & performance issues. <u>Networking Configuration</u> : Hands-on experience configuring network devices (routers, switches) and setting up network services. <u>Troubleshooting</u> : Diagnosing and resolving network connectivity and performance problems. <u>Network Security</u> : Implementing basic network security measures.
COURSE : DIPLOMA IN GRAPHIC DESIGNING	
DURATION : 4 MONTHS END PROFILE : GRAPHIC DESIGNER	
DIGITAL MARKETING <u>Search Engine Optimization (SEO)</u> : This involves optimizing websites to rank higher in search engine results for relevant keywords. Courses often cover keyword research, on-page optimization, off-page optimization, and technical SEO. Social Media Marketing (SMM) : This focuses on using social media platforms to build brand awareness,engage with customers, and drive traffic to websites. Courses may cover strategies for different platforms like Facebook, Instagram, LinkedIn, and YouTube. Content Marketing : This involves creating and distributing valuable, relevant, and engaging content to attract and retain a target audience. Courses may cover different content formats, including blogs, articles, videos, and infographics. Mobile Marketing : This focuses on using mobile devices to reach and engage with customers. Courses may cover mobile advertising, SMS marketing, and mobileappmarketing.Affiliate Marketing:This involves partnering with other businesses or individuals to promote their products or services in exchange for a commission. AI in Digital Marketing : Some courses may cover how AI is being used in various aspects of digital marketing, such as content generation, ad targeting, and automation.	COURSE : DIPLOMA IN HARDWARE & NETWORKING DURATION : 3 MONTHS END PROFILE : SYSTEM ADMIN
Website Creation : Learn how to set up a WordPress website, including choosing a theme, installing plugins, and customizing your site. Content Management : Explore how to create, edit, and manage content, including posts, pages, and media. Theme Development : Learn how to customize themes, build custom templates, and create your own WordPress themes. Plugin Development : Discover how to create and manage WordPress plugins, extending the functionality of your website. Mobile Editing Apps : CapCut : A popular free app for creating dynamic and engaging Reels with features like trimming, cutting, adding effects, and music. InShot : Another app known for its easy-to-use editing tools, allowing users to create professional-looking Reels quickly. Key Editing Techniques & Tools : Adding effects and filters : Music & audio editing : Text and graphics. Reels and Content Creation : focuses on advanced techniques, including planning, production, editing, and posting reels for different platforms : Use AI to Create Viral Reels" Youtube Channel Creation : It typically outlines the learning objectives, content, and assessment methods for a course focused on creating, managing, and monetizing a YouTube channel. It covers topics like channel branding, content creation, SEO, algorithm optimization, monetization strategies, and audience engagement.	DATA SCIENCE DURATION : 4 MONTHS Module 1: Foundations of Data Science & ProgrammingBefore diving into algorithms, you need to master the tools used to manipulate data.Python/R Programming: Syntax, data structures (lists, dictionaries, tuples), loops, and functions.Data Manipulation Libraries: Mastery of NumPy (numerical computing) and Pandas (dataframes and data wrangling).Development Environments: Jupyter Notebooks, VS Code, and version control with Git/GitHub.Module 2: Mathematics & Statistics (The Backbone)Data science relies heavily on statistical models. You need to understand how algorithms make decisions under the hood.Descriptive Statistics: Mean, median, mode, variance, and standard deviation.Inferential Statistics: Hypothesis testing, p-values, A/B testing, and confidence intervals.Probability: Bayes' Theorem, probability distributions (Normal, Binomial, Poisson).Linear Algebra & Calculus: Matrices, vectors, determinants, and gradient descent basics.Module 3: Data Cleaning & Exploratory Data Analysis (EDA)In the real world, data is messy. This module focuses on preparing data for analysis.Data Cleaning: Handling missing values, removing duplicates, outliers detection, and data transformation.Data Visualization: Creating charts and dashboards using Matplotlib, Seaborn, or Tableau/Power BI to spot trends.Feature Engineering: Scaling, normalization, one-hot encoding, and dimensionality reduction (PCA).Module 4: Machine Learning (Core Curriculum)This is where you train computers to learn from data and make predictions..Module 5: Databases & Big DataData scientists rarely work with flat CSV files. You need to know how to query massive datasets.Relational Databases: Advanced SQL (Joins, Aggregations, Subqueries, Window functions).NoSQL Databases: MongoDB or Cassandra basics.
COURSE : DIPLOMA IN DIGITAL MARKETING	
DURATION : 3 MONTHS END PROFILE : DIGITAL MARKETER	