Floath Solution Hub

Training Curricullum

Are you ready to embark on a transformative journey into the world of Tech? At Floath Hub Accademy, we're thrilled to invite you to join our comprehensive and dynamic training program.

Software Engineering
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Module 1: Introduction to Software Development

Overview of Software Development.

1. Understanding the software development life cycle
2. Roles and responsibilities in software development teams.
3. Introduction to version control systems (e.g., Git)

Module 2: Programming Fundamentals

Programming Basics.

1. Introduction to a programming language (e.g., Python, JavaScript).
2. Variables, data types, and operators Control flow (if statements, loops).
3. Functions and modular programming.

Module 3: Web Development Basics

Front-end Development

1. HTML5 and CSS3 fundamentals.
2. Introduction to responsive web design.
3. Basics of JavaScript and the Document Object Model (DOM).
4. Introduction to front-end frameworks (e.g., React, Angular, Vue).

Module 4: Database Fundamentals

Database Design and SQL

1. Relational database concepts.
2. Designing a database schema.
3. SQL fundamentals (queries, joins, transactions).
4. Introduction to NoSQL databases (e.g., MongoDB).

Module 5: Back-end Development

Server-side Programming

1. Introduction to server-side languages (e.g., Node.js, Django, Flask).
2. Building RESTful APIs Authentication and authorization.
3. Handling HTTP requests and responses

Module 6: Version Control and Collaboration

Advanced Git and Collaboration Tools

1. Git branching and merging strategies.
2. Collaborative development using platforms like GitHub or GitLab.
3. Code reviews and pull requests.

Module 7: Software Testing

Testing Principles and Techniques.

1. Types of testing (unit, integration, end-to-end).
2. Test-driven development (TDD).
3. Writing and running tests using frameworks (e.g., Jest, JUnit)

Module 8: Deployment and DevOps

Deployment and Continuous Integration/Continuous Deployment (CI/CD).

1. Basics of containerization (e.g., Docker).
2. Setting up CI/CD pipelines.
3. Deployment strategies and best practices.

Module 9: Software Architecture and Design Patterns

Architectural Concepts and Best Practices

1. Design principles (SOLID).
2. Common design patterns.
3. Microservices architecture.

Module 10: Final Project

Capstone Project

1. Apply learned skills to a real-world project.
2. Collaborate with a team and use version control.
3. Present and showcase the project.

Additional Electives (Optional):

Specialized Topics.

Depending on the interests of the students, we offer optional modules covering topics such as mobile app development, cloud computing, artificial intelligence, or cybersecurity. Graduation and Career Preparation

We offer Career Development, Resume building and interview preparation Job search strategies and networking Soft skills and professional communication upon completion.

Business Analysis

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Module 1: Introduction to Business Analysis

1. Overview of Business Analysis.
2. Structure of the BABOK Guide

Module 2: Business Analysis Key Concepts

1. Business Analysis Conceptual Framework
2. Requirements Classification Schema
3. Stakeholders
4. Requirements and Designs

Module 3: Business Analysis Planning and Monitoring

1. Plan Business Analysis Approach
2. Plan Stakeholder Engagement
3. Plan Business Analysis Governance
4. Plan Business Analysis Information Management
5. Identify Business Analysis Performance Improvements

Module 4: Elicitation and Collaboration

1. Prepare for Elicitation
2. Conduct Elicitation
3. Confirm Elicitation Results
4. Communicate Business Analysis Information
5. Manage Stakeholder Collaboration

Module 5: Requirements Life Cycle Management

1. Trace Requirements

2. Maintain Requirements

3. Prioritize Requirements

4. Assess Requirements Changes

5. Approve Requirements

Module 6: Strategy Analysis

1. Analyze Current State
2. Define Future State
3. Assess Risks
4. Define Change Strategy

Module 7:Requirements Analysis and Design Definition

1. Specify and Model Requirements
2. Verify Requirements
3. Validate Requirements
4. Define Requirements Architecture
5. Define Design Options
6. Analyze Potential Value and Recommend Solution

Module 8: Strategy Evaluation

1. Measure Solution Performance
2. Analyze Performance Measures
3. Assess Solution Limitations
4. Assess Enterprise Limitations
5. Recommend Actions to Increase Solution Value

Module 9: Underlying Competencies

1. Analytical Thinking and Problem Solving
2. Behavioural Characteristics
3. Business Knowledge
4. Communication Skills
5. Interaction Skills
6. Tools and Technology

Module 10: BA Techniques and Perspectives

1. Techniques
2. Perspectives

Product Management
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Module 1: Introduction to Product Management

1. Overview of Product Management
2. Product Life Cycle
3. Product Management vs
4. Project Management

Module 2: Product Market Fit

1. Product Discovery and Customer Development
2. Market Analysis and Customer Research
3. SWOT and PEST Analysis

Module 3: Product Strategy and Roadmap

1. Product vision and strategy
2. MVP

3. Product Roadmap
4. Roadmap Management on Jira

Module 4: Wireframing and Prototyping

1. Wireframes
2. Mock-ups and Prototypes

Module 5:Agile Methodologies and Product Development

1. Product Development Process
2. Understanding Agile and Scrum frameworks
3. Prioritizing Features and User Stories
4. Sprint Planning and Execution
5. Product Backlog Management
6. Product Quality Management

Module 6: Product Marketing and Launch

1. Product Marketing Fundamentals
2. Go-to-Market Strategy
3. Product Metrics and Analytics

Module 7: Leadership and Communication

1. Product Management Leadership
2. Communication and Team Workflow
3. Stakeholder Management
4. Product Management Ethics and Responsibility

Module 8: Innovation and Design Thinking

1. Fostering a culture of innovation
2. Design Thinking Approach
3. Leveraging emerging technologies for product innovation

Digital Marketing
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Module 1: Introduction To Digital Marketing

1. The definition of digital marketing
2. The importance of businesses running online marketing campaigns
3. Comprehending how digital marketing benefits businesses
4. The goals behind creating a website
5. The responsibilities of a digital marketer
6. An introduction to online advertising

Module 2: Website Planning & Analysis

1. Up-to-date website development trends
2. Definition and importance of domain names and extensions
3. Identifying the best hosting servers
4. Understanding various server types
5. Utilizing a content management system
6. Defining website objectives
7. Essential steps in website creation
8. Conducting a comprehensive SEO

Module 3: Search Engine Optimization

1. An Overview of SEM and SEO
2. Traffic and its meaning
3. Different types of keywords
4. Techniques for identifying the best keyword
5. Strategies for keyword optimization
6. Content planning and optimization

Module 4: Search Engine Marketing

1. Introduction to Google AdWords
2. Techniques for creating effective ad campaigns
3. Finding the appropriate budget for ad campaigns
4. Understanding your target audience for better results
5. Using dynamic ads to improve ad performance
6. Explanation of display advertising and its benefits
7. Explanation of Ad Rank and its Importance

Module 5: Social Media Marketing

1. Introduction to various social media platforms
2. Techniques for achieving high user engagement on social media
3. Methods for promoting your brand on social media

Module 6: Web Analytics

1. Introduction to Google Analytics
2. Explanation of how Google Analytics works
3. Overview of real-time data tracking
4. Analyzing and gaining insights from website data
5. Understanding different types of goals in Google Analytics
6. Integration of Google Analytics with other tools such as Search Console

Module 7: eCommerce Marketing

1. E-commerce definition
2. Different E-commerce platforms
3. Significance of SEO in E-commerce
4. Developing a robust E-commerce plan

Module 8: Content Marketing & Blogging

1. Content marketing definition
2. Overview of various content types
3. Learning content promotion and increasing sales
4. Methods for creating original and engaging content

5. Understanding content dissemination techniques
6. Familiarization with the concepts of blogging

Module 9: Affiliate Marketing

1. Explanation of affiliate marketing tactics
2. Overview of how affiliate marketing works
3. Identification of profitable affiliate niches and products
4. Techniques for developing an exceptional affiliate website
5. Digital strategies for increasing affiliate traffic

Module 10: Email Marketing

1. Definition of email marketing
2. Development and management of an email list
3. Introduction to email marketing tools
4. Creation of an email marketing campaign

Graphics & Product Design

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Module 1: Introduction to Graphic Design

1. Understanding the principles of design
2. Introduction to typography and color theory
3. Overview of graphic design software (Adobe Creative Cloud, GIMP, etc.).

Module 2: Fundamentals of Design Software

Adobe Photoshop Fundamentals

1. Navigating the Photoshop interface
2. Working with layers, tools, and filters
3. Basic photo editing and manipulation techniques

Module 3: Vector Graphics with Adobe Illustrator

Introduction to Illustrator

1. Understanding vector graphics
2. Creating logos, icons, and illustrations
3. Typography and text manipulation in Illustrator

Module 4: Layout and Composition

Adobe InDesign Basics

1. Page layout and document setup
2. Working with text and images in a layout
3. Creating brochures, flyers, and posters

Module 5: Advanced Photoshop Techniques

Photo Editing and Retouching

1. Advanced photo manipulation
2. Color correction and grading
3. Special effects and filters

Module 6: Advanced Illustrator Techniques

Mastering Illustrator

1. Advanced vector illustration techniques
2. 3D modeling and effects
3. Logo design and branding

Module 7: Branding and Identity Design

Developing a Brand

1. Understanding brand identity
2. Creating logos, business cards, and letterheads
3. Building a cohesive brand image

Module 8: Web and UI/UX Design

Designing for the Web

1. Basics of web design principles
2. Creating user interfaces and user experiences
3. Prototyping with design tools

Module 9: Motion Graphics and Animation

Introduction to Animation

1. Basics of motion graphics
2. Animation principles
3. Creating animated graphics and GIFs

Module 10: Portfolio Development

Showcasing Your Work

1. Building a professional portfolio
2. Presenting and marketing your design projects
3. Resume building and job search strategies

Additional Electives (Optional)

Specialized Topics

* Depending on participants' interests, we offer optional modules covering topics such as advanced UI/UX, digital marketing design, or 3D modeling.

Graduation and Career Preparation

Career Development

- Networking and industry connections
- Job search strategies and interview preparation
- Freelancing and entrepreneurship in graphic design