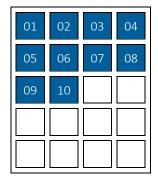
### **WEEKS**



## CERTIFICATION OPTIONS



FRONT-END WEB DEVELOPER PROFESSIONAL CERTIFICATE

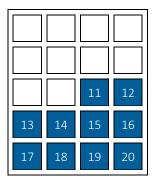
### **CURRICULUM FOCUS**

Front-End Web and Application Fundamentals and Software Development Concepts

### **CORE COMPETENCIES**

- Introduction to web & app development.
- Fundamentals of UI/UX design and Agile development principles.
- Principles of program logic.
- Introduction to MERN.
- Introduction to testing, GitHub, and the DOM.
- Styles and Bootstrap.
- Introduction to cybersecurity and recursion.
- Introduction to JavaScript ES6, React.js, Node.js and JSX.
- Working with lists in React.
- Working with simple & react components.

**WEEKS** 



### **CURRICULUM FOCUS**

Back-End Web and Application Fundamentals, Testing, and Quality Assurance

### **CORE COMPETENCIES**

- Hands-on program logic and real-world business-based solutions.
- Introduction to testing and quality assurance.
- Application servers, Databases using MongoDB, and storage.
- Containers and cloud basics.
- API fundamentals & security concerns.
- Understanding architectural patterns.
- DevOps & testing.





 Project portfolio using self-branding principles for freelance, entrepreneurship, or full-time placement.

### **CURRICULUM FOCUS**

Software Development Fundamentals Using Python and Java

### **PYTHON CORE COMPETENCIES**

- Fundamental terms and definitions (e.g. compilation vs. interpretation.)
- Python's logic and structure (e.g. keywords, instructions, indentation.)
- Literals, variables, and numeral systems, operators, and data types.
- I/O operations, control flow mechanisms (conditional blocks and loops.)



- Data collections (lists, tuples, dictionaries, strings.)
- Functions (decomposition, built-in and user-defined functions.
- Organizing interaction between functions and their environment generators, recursion.
- Exceptions (exception handling, hierarchies.)
- The essentials of Python programming language syntax, semantics, and the runtime environment.

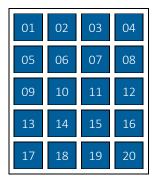
### CERTIFICATION OPTIONS



CERTIFIED ENTRY-LEVEL PYTHON PROGRAMMER



### **WEEKS**



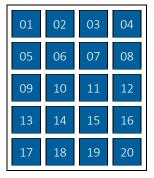
#### **CURRICULUM FOCUS**

Professional, Social and Self Awareness, and Emotional Intelligence Development

### **CORE COMPETENCIES**

- Learn to develop and demonstrate soft skills while being exposed to thought leaders and visiting organizations from all industries.
- Emotional Intelligence

### **WEEKS**



# UX DESIGN CERTIFICATE PROGRAM



234 HOURS

### GOOGLE UX DESIGN CERTIFICATE PROGRAM INTEGRATION

Understanding How User Experience Drives Software Development

### **CORE COMPETENCIES**

- Foundations of user experience (UX) design.
- Start the UX design process: Empathize, Define, and Ideate.
- Build wireframes and low-fidelity prototypes.
- Conduct UX research and test early concepts.
- Create high-fidelity designs and prototypes in Figma.
- Responsive web design in Adobe XD.
- Design a user experience for social good and prepare for jobs.

