



Advanced Program in Web Development Using Python



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ABOUT EXEED ECX



Exeed ECX is a spin-off of Exeed College - a prestigious entity of higher learning and executive education from Westford Education Group. Exeed ECX provides a unique learning method through its satellite centres via blended learning.

Exeed ECX, with its world-class academics, has accreditation and partnerships with the world's premium universities and awarding bodies. Plymouth Marjon University is a top-ranked, accredited university in the UK that collaborated with Exeed ECX. Other major universities collaborating with Exeed ECX are Universidad Católica de Murcia (UCAM) in Spain, Acacia University in the USA, and GEX Business School in France.

Apart from this, our parent organisation Exeed College has tie-ups with universities across the globe – UCAM (Spain), Liverpool John Moores University (UK) and Carolina University (US) as well as with professional accreditation bodies like Scottish Qualifications Authority (SQA), Chartered Management Institute (CMI), Society for Human Resource Management (SHRM) and Cambridge International Qualification to provide globally recognised qualifications

About

Acacia University



Acacia University, located in Arizona, United States, has been a pioneer and leader in distance education since 2000. Stands as a symbol of regeneration, perseverance, and integrity, it aims to provide accessible, quality education to a multi-cultural, global learning community through online/distance learning.

As technology advances and students look for greater flexibility and accessibility with education, it is on a mission to make learning a long-lasting, invigorating experience. It offers academic programs at the bachelor's, master's, doctorate or certificate levels in a multitude of areas.

At Acacia, we are committed to provide unparalleled standards of learning by delivering the highest quality educational programs through smart, innovative forms of learning.

Acacia University Professional Development Programs—a division of Acacia University, USA, provide rigorous online programs to distance learners, working professionals, college students, and those with an insatiable thirst for knowledge.



Airtics Education's Advanced Programs are offered as part of Acacia University Professional Development Programs, and the learners are certified by the University.



ADVANCED PROGRAM IN **WEB DEVELOPMENT USING PYTHON**

Overview

Web developers are software specialists knowledgeable in frontend (client-side) programming and backend (server-side) development. The Web Development using python course guides professionals through various software skills and languages to confidently construct dynamic websites easily. Beginning with an explanation of how internet servers and clients operate together to offer Web applications to users, this course then takes you through the context of Web development, introducing front-end, back-end, and full-stack development. You'll then concentrate on the languages you need for front-end programming, working with HTML, CSS, and JavaScript.

Course Duration: **6 Months** | Course Modules: **3 Modules**

PROGRAM STRUCTURE

Module 1

CLIENT-SIDE SCRIPTING

40 HOURS

WEB PROGRAMMING INTRODUCTION	BOOTSTRAP
HTML	JAVASCRIPT
CSS3	

Learning Outcomes

- LO1:** Develop a basic understanding of web programming
- LO2:** Create well-structured, easy-to-maintain, standards-compliant HTML and CSS web pages
- LO3:** Customize pages with dynamic content using JavaScript
- LO4:** Use Bootstrap a CSS framework to create responsive pages
- LO5:** Utilize JavaScript techniques for form validation
- LO6:** Understand client-side Web security concepts

Module 2

BUILDING DYNAMIC WEBSITE

40 HOURS

PYTHON	DJANGO TEMPLATE
DJANGO PROGRAMMING	DJANGO FORMS

Learning Outcomes

- LO1:** Learning python structure and how to write programs in it
- LO2:** Design and develop web applications using python and Django
- LO3:** Developing & validating real-world web applications based on heterogeneous data sources
- LO4:** Develop Server-Side Web applications
- LO5:** Test & validate server-side web applications

Module 3

DATABASE MANAGEMENT SYSTEM

20 HOURS

POSTGRESQL	SQL
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Learning Outcomes

- LO1:** Understanding basic concepts and uses of databases with multiple applications
- LO2:** Learn DBMS and why it's used for web development
- LO3:** Build SQL code for DDL and DML
- LO4:** Recognize work conditions and resolve database peculiarities by normalizing database tables

Project

E-COMMERCE/LMS/CMS

20 HOURS

TRAINING KEY FEATURES



80 hours of live instructor led training



3 industry-based projects, 12 Assignments
& 6 Case Studies



24/7 support and LMS Access



Hands on experience with latest tools & applied projects



Live engagement classes by seasoned academics and professionals



Internship and placement



3 guaranteed interviews by Airtics



Flexible timing for working professionals

ELIGIBILITY

Firm knowledge of software fundamentals with data structures, linear programming, and architecture is beneficial. Candidates from programming and non-programming backgrounds could also opt for this in-demand course.

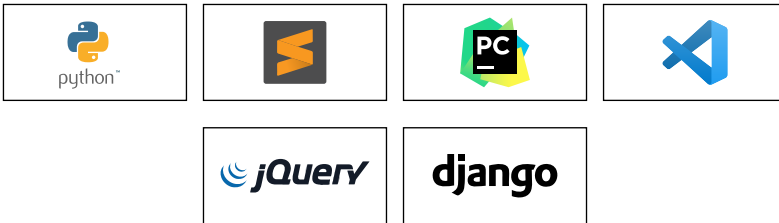
PREREQUISITES

Candidate having basic knowledge to operate a computer, software installations and running it would be a plus point.



TOOLS/Frameworks/LIBRARIES

- Scripting tools: Python Programming
- IDE shell: Sublime Text, Pycharm, Visual Studio Code
- Frameworks/Libraries: jQuery, Django



APPLICATION & USE CASES



Online
Forms



Shopping
Carts



Video &
Photo
Editing



CMS



LMS



WBMS



File
Conversion

CAPSTONE PROJECTS

Suggested project topics:



LIBRARY
MANAGEMENT
SYSTEM



HOSPITAL
MANAGEMENT
SYSTEM



ONLINE
EXAMINATION
SYSTEM

INTERNSHIP/PROJECTS

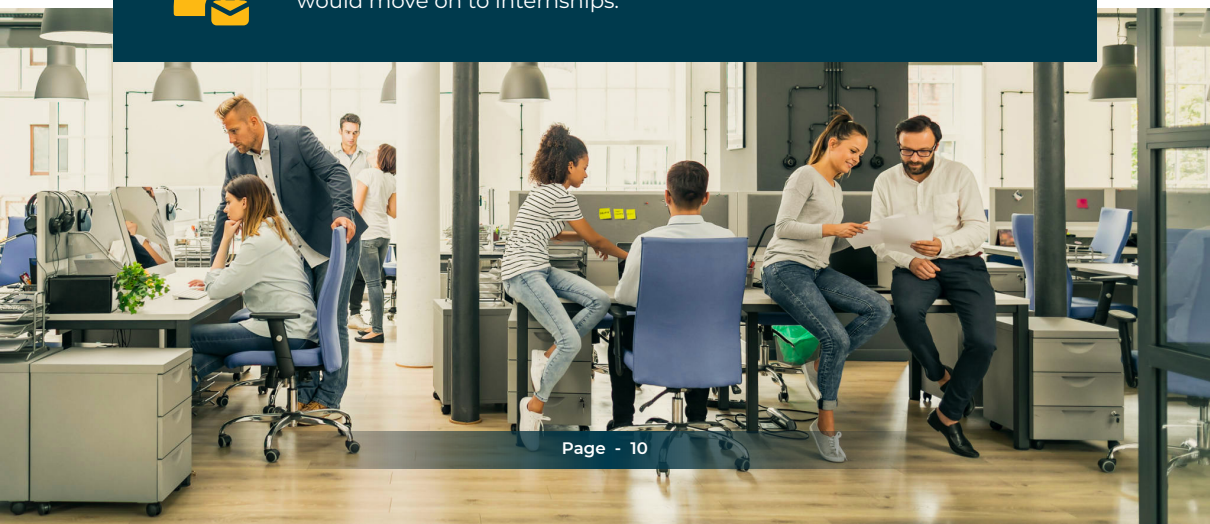
Airtics provides internships in the respective field for a period of 2-3 months to all eligible and able students.

IIINTERNSHIP/PROJECT INCLUDES:

- ✓ Mentoring by software developers
- ✓ Internship certificate
- ✓ Live workshops on projects
- ✓ Candidate's evaluation



After successfully completing the learning modules, eligible students would move on to internships.





PLACEMENT SUPPORT

Airtics's high level of instruction has attracted an increasing number of companies, and the placement scene is expanding. Candidates who excel in internship will be eligible for placement at top MNC's that work with Airtics.

- ✓ Deliver five proof-of- concept a month
- ✓ We will have our partner companies review the POCs
- ✓ 3 guaranteed interviews
- ✓ JD based Support training
- ✓ Placement in MNC

CERTIFICATION



International Certification by

Acacia University - Professional Development





Regional office:
City Center Complex, Pattambi Road, Perinthalmanna,
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