Web Development with Python خطة معسكر

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|  | **العناوين الفرعية** | **الموضوع** | **الأسبوع** |
| ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ● | ~~CLI~~  ~~Git/GitHub~~  ~~Python Intro~~  ~~IDE setup~~  ~~Variables~~  ~~Type hinting~~  ~~Data types~~  ~~Data types casting~~  ~~Flow control~~  ~~IF conditionals~~  ~~For Loop~~  ~~While Loop~~  ~~Range~~  ~~Comparison operators~~  ~~Logical operators~~ | ● Python 101 | **1** |
| ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ●  ● | ~~functions~~  ~~Functions with params~~  ~~Functions with Return~~  ~~Namespace scope~~  ~~LIST~~  ~~TUPLE~~  ~~DICTIONARY~~  ~~SET~~  ~~Modules & Packages~~  ~~File / Directory Operations~~  ~~Recursion & Anonymous Functions~~  ~~Exceptions & Exceptions Handling~~  ~~Decorators~~  ~~Object Oriented Programming~~  ~~Virtual Environments & PIP~~ | ● Python 102 | **2** |
| ● | ~~Students work on a project individually (an interactive CLI program) to revise and implement what they learned in Unit-1.~~ | UNIT-1 PROJECT | **3** |
| ●  ●  ● | ~~How the internet works~~  ~~Using HTML to build Web Pages~~  ~~Using CSS to style interface~~  ~~Using CSS libraries.~~  ~~CSS Animation.~~  ~~Adding media to a web page.~~ | ● Internet & worldwide  web introduction | **4** |

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| ●  ●  ●  ●  ●  ●  ●  ●  ●  ● | ~~What is Django~~  ~~Setting up a new project~~  ~~Running a server with the right settings Using views. Using URL mappings. creating templates.~~  ~~Passing data from view to templates. Using conditionals, loops, variables inside a template.~~  ~~Rendering a template~~  ~~Using best practices when dealing with templates.~~ | ● Django Introduction | **5** |
| ● | ~~Students work on a project individually to revise and implement what they learned in Unit-2.~~  ~~Expected a functional website.~~ | UNIT-2 PROJECT | **6** |
| ●  ●  ●  ●  ●  ●  ●  ● | ~~Learn about RDBMS~~  ~~What is an ORM~~  ~~Using Django Models~~  ~~Using migrations~~  ~~CRUD operations on Model~~  ~~Filtering results~~  ~~Limiting and ordering results~~  ~~Exploring different types of fields for different purposes~~ | ● Django ORM | **7** |
| ● | Students work on a project individually to revise and implement what they learned in Unit-3. | UNIT-3 PROJECT | **8** |
| ●  ●  ●  ●  ●  ●  ●  ●  ● | Using the Django User Model  Authenticating users  Logging in Users  Using the user object in views & templates Giving permissions to users.  Checking for permission to users.  Limiting functionality or some pages to those users with permissions.  Django Admin panel.  Adding models to the admin panel.  - Customizing Admin panel. | ● Django  Admin, Authentication &  Authorization | **9** |

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| ● | Students work on a project individually to revise and implement what they learned in Unit-4. | UNIT-4 PROJECT | **10** |
|  | Students design, implement, and work in groups to create the final project of the bootcamp. | CAPSTONE | **11** |
|  | Students design, implement, and work in groups to create the final project of the bootcamp. | CAPSTONE | **12** |