



Cape Peninsula University of Technology

Creating Futures

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ABOUT PAGE

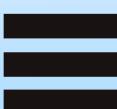
Each faculty of CPUT has a corporate colour and the colour for Informatics and Design faculty is red.

CPUT IT department offers a range of qualifications which can be categorised as formal and non-formal courses.

The IT departments 3 specialized training areas is Applications Development (Software Development), Communication Networks and Multimedia Technology.

The non-formal coursers in the department are in collaboration with the IT industry.

The department has several semi-autonomous business units that operates within the department. The purpose of these units are to focus on the professional development of students in delivering research and development services to the community and industry.



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Congratulations! You have passed
all your first year modules.
Welcome
to second year!

The CPUT IT department offers 4 electives modules for students to choose from. A student can only enrol for 1 elective.

The elective modules are:

Web Development Frameworks

Mobile Programming

R Programming

Blockchain Development

Elective Choice



Web Development Framework

- A web framework (WF) or web application framework (WAF) is a software framework that is designed to support the development of web applications including web services, web resources, and web APIs. Web frameworks provide a standard way to build and deploy web applications on the World Wide Web. Web frameworks aim to automate the overhead associated with common activities performed in web development. For example, many web frameworks provide libraries for database access, templating frameworks, and session management, and they often promote code reuse. Although they often target development of dynamic web sites, they are also applicable to static websites.
- In this elective you will be using web development frameworks such as Angular, Vue.Js, React, Laravel, Flask, Express.JS
- The type of employment one should expect from choosing this elective:
- Front end web developer (The responsibility of a front end Web developer is to develop the UX/UI design and deal with other crucial aspects of the application such as SEO optimization, code snippets, templates, user interaction management, and more.)
- Back end web developer(Back end web developers work by dealing with the server and database functioning, routing protocols, solution logic and architecture, authorization options, data security, and more.)
- The lecture of this elective :
Nieyaaz Bawa (bawan@cput.ac.za)



Blockchain development

- A blockchain is a type of database used to store and organize information. Traditional databases arrange information into rows and columns that make up tables. This makes the information easy for computers to recognize. With blockchains, however, information is digitally formatted and collected into clusters or blocks. Each block has a limited storage capacity.
- Blockchain development refers to building, maintaining, and designing blockchain applications and systems. Overall, it seeks to use the unique features of blockchain technology to solve problems and create opportunities.
- In this elective you will be using Blockchain Frameworks such as Hyperledger, Codra, Exonum, Ethereum.
- The type of employment one should expect from this elective:
- Blockchain Developer (Blockchain developers enable secure digital transactions by creating systems to record and store blockchain data in a way that prevents changes or hacks. They design secure blockchain technologies, develop application features and interfaces, and maintain client and server-side applications.)
- The lecture of this elective is Gordon Lawrence (lawrenceg@cput.ac.za)



Mobile Programming

- Computer programming is the process of performing a particular computation, usually by designing and building an executable computer program.
- Mobile Programming/Mobile application development is the set of processes and procedures involved in writing software for small, wireless computing devices, such as smartphones and other hand-held devices.
- In this elective Framework, Ionic, Appcelerator and Sencha will be used.
- The main types of employment that can be expected from studying mobile programming is:
- A Mobile Developer, they are a type of software developer who specialise in mobile technology such as building apps for Android, Apple iOS and Windows Phone Platforms.
- Mobile App Developers process/design mobile apps, such as cooperating with UX Designers and UI designers to create standard functioning mobile applications.
- The lecturer of this elective is Dr Michael Adeyeye (adeyeyem@cput.ac.za)



R Programming

- R is a programming language for statistical computing and graphical presentation to analyze and visualize data.
- In this elective you will be using R to analyse and visualize.
- The type of employment one should expect from this elective; Data mining (Data mining is the process of extracting and discovering patterns in large data sets involving methods at the intersection of machine learning, statistics, and database systems.)
 - Bio-informatician(A bio-informatician is a specialist who combines computer science into the area of biology by analysing large data sets such as raw genomic data for clinical and research purposes.)
- The lecturer of this elective is Faiza Allie (allief@cput.ac.za)



**Congratulations!!!
you have chosen
Web Development
Framework as your elective**

**Good luck with second
year!!!!**

Log out

x



**Congratulations!!!
you have chosen
Blockchain Development
as your elective**

**Good luck with second
year!!!!**

Group Members

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**Congratulations!!!
you have chosen
Mobile Programming
as your elective**

**Good luck with second
year!!!!**

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**Congratulations!!!
you have chosen
R programming
as your elective**

**Good luck with second
year!!!!**

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