TechFuture

The TechFuture program is designed to give students, ages sixteen plus, a chance to explore how technology has transformed different digital industries.

Students will apply the learning by building real-world projects using industry standard tools.
The six courses cover topics in design, programming, data analysis and organization, as well as digital marketing. Students will apply skills within a range of industry themes and job activities to expand their understanding and opportunities of where their own greatest interests lie related to the world of professional digital industries.

Each course is 40 hours and can be done together in the recommended order (240 hours), or individually. The courses are designed to give students opportunities to practice their skills, project management, as well as communication, digital literacy and digital citizenship. This programme is essential to the modern workplace.

Tech Ready   Tech Connected   Tech Novators   Tech Future

TechFuture
Course Descriptions

Course Name	Description
Digital skills: Modern industries and the workplace Ready for third-party use October 2021	In this course, students will gain understanding of and begin to practice the identified core skill areas of the program: Design, Programming, Data and Digital Marketing across different industries, such as finance, education, and hospitality. The course celebrates entrepreneurship, focuses on how to succeed in their (future) workplace and in the identified core skill areas through learning tools and techniques, developing best practices in a digital work environment. 🔭 **Explore** the role of digital design, data, programming, and marketing across different industries. 📖 **Learn** the fundamental core digital skill areas in the future of work across different industries. 📐 **Create** digital artifacts (presentations and infographics) by using common, industry-standard digital tools to articulate their understanding of digital best practices in the workplace.
Digital Design: Fundamentals in UI and UX Ready for third-party use November 2021	In this course, students will dive into the world of functional design by having a deeper understanding of how design decisions are made. They will study User Experience (UX) through various user perspectives and use industry standard tools. 🔭 **Explore** how basic design principles inform user interface (UI) and user experience (UX) design.

📖 **Learn** to implement Design Thinking, evaluate the UX of digital applications, plan the UX of digital products (app and websites) and prepare evidence to support design decisions.

✏️ **Create** wireframes, mock-ups, and prototypes by using industry-standard design tools.

Programming: Build an E-Commerce Website

Ready for third-party use End of April 2022

In this course, students will gain confidence in CSS and JavaScript fundamentals. They will apply their learning to ultimately create a prototype of an e-commerce website using the BSD Database on BSD Online.

🔭 **Explore** the best practices of web development in the context of an e-commerce website.

📖 **Learn** how to utilize CSS and JavaScript to manipulate the front-end and back-end, as well as databases of a website.

✏️ **Create** a front-end and back-end prototype of an e-commerce website.

Data: Actionable insight

Ready for third-party use End of April 2022

In this course, students will learn how to work with data and how data is utilized in businesses. Students will also learn the implications of working with big data sets and analyze data to produce insight.

🔭 **Explore** the power of data and how different industries utilize data to inform their business decisions.

📖 **Learn** how to collect and organize raw data to produce informative data visualization and insight.

✏️ **Create** a comprehensive data report including visualizations to provide actionable insights for a business.

Digital marketing: How to Get the Right Exposure for Your Business

Ready for third-party use End of June 2022

In this course, students will explore the key principles and strategies in digital marketing. Students will learn the process, tools and components to launching a digital marketing campaign.

🔭 **Explore** how social media digital marketing is used across different industries.

📖 **Learn** how social media, design, and data come together to inform an effective digital marketing campaign.

✏️ **Create** a comprehensive digital marketing campaign plan for a given client brief.

Entrepreneurship: From an idea to action

Ready for third-party use End of September 2022

This course is designed to summarize the learning from the previous courses to see how skills in design, data, marketing, programming and leadership can come together to realize their entrepreneurial ideas.

🔭 **Explore** entrepreneurial concepts and strategies in taking an idea and transforming it into a business plan.

📖 **Learn** how to build a business plan and proposal by implementing skills and learning from the previous courses.

✏️ **Create** a digital prototype, a design proposal, a data report and a digital marketing campaign to rationalize, communicate and promote a new product or service of their own creation.