



### NCP3105: Software Design Laboratory (Web Development)

1st Semester, Academic Year 2022 - 2023

### WEB FRONT-END DESIGN USING BOOTSTRAP

Preliminary Examination

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#### WEB FRONT-END DESIGN USING BOOTSTRAP

**Preliminary Examination** 

#### **Intended Learning Outcomes**

At the completion of this activity, the students will be able to:

- **explore** the different UI components of Bootstrap;
- **use** Bootstrap as front-end platform in developing web pages; and
- **design** a simple website.

#### **Machine Problems**

Design a simple web page for the Computer Engineering field. The design shall be implemented using Bootstrap. The web page shall contain the following contents:

- What is Computer Engineering
- Fields of Specialization
- Career Opportunities
- Program Educational Objectives
- Program Outcomes
- Characteristics of BS CpE Graduates
- Student Organization

Students are allowed to go beyond the minimum requirements.

#### Output







#### **Discover Your Path in Computer Engineering**

#### What is Computer Engineering?

A computer engineer fuses electrical engineering and computer science to develop new technology. Computer engineers design, build, and maintain hardware in modern computers

These engineers focus on integrating hardware and software in a unified system safely and efficiently, along with personal devices, these engineers have a hand in creating robotics, networks, and other computer-based systems.

Fields of Specialization

The following are some of the few examples of popular subdisciplines of Computer Engineering. You can click on them to switch to see the possible careers in each discipline.

1. Data Science & Machine Learning

Data Science and Machine Learning uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from many structural and unstructured data. Data science relates to data mining uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from many structural and unstructured data. Data Science relates to data mining and big data, and focuses on extracting knowledge from data sets.

Careers

- Business Intelligence (8) Developer
- Data Architect
- Applications Architect
- Infrastructure Architect
- Infrastructure Architect
- Data Scientist
- Data Analyst
- Data Engineer

2. Cyber Security
- Cyber- Security refers to technological solutions that can prevent cyber threats like attacks, unauthorized access to data, programs, and networks. With increasing cyber threats in the digital world, the need for skilled personnel has also surged in both the public and private sectors who can develop and provide solutions towards the security of our digital assets.

Careers

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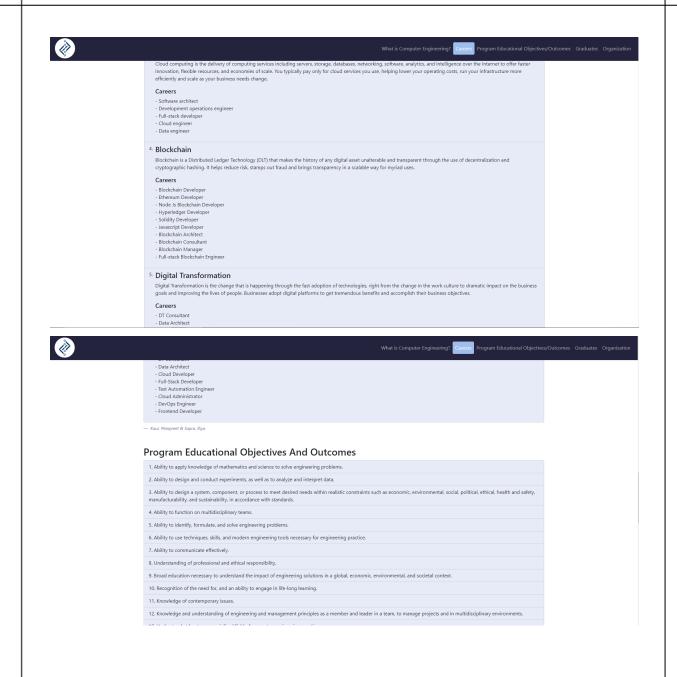
Careers

- Cyber Security analyst
- Networks security analyst

3. Cloud Computing
Cloud computing is the delivery of computing services including servers, storage, databases, networking, software, analytics, and intelligence over the internet to offer faster innovation flowards or not over internation creater non-over internation creater non-over internation cover our coveration creater non-over internation covers no over information covers no over information covers no over information covers no over in information creater non-over internation creater non-over internation













### **Grading Rubric**

See the attached grading rubric.