Presentation Practical 2: Career-Oriented

Aim

To create a career presentation using slides, transitions, and animations.

Objectives

- To design a multi-slide professional presentation
- To apply transitions and

animations Materials Required

- PowerPoint or Google

Slides Procedure

Open a blank presentation

Launch PowerPoint/Google Slides and select the option to create a new blank presentation. This opens a fresh workspace where you will design your slides.

Create a title slide

Insert a title slide layout and add the presentation title along with your name or subtitle. Ensure the title is clear, readable, and visually centered on the slide.

Add minimum 7 slides

Use the "New Slide" option to insert at least seven additional slides with appropriate layouts. Each slide should focus on a single topic or idea for clarity.

Insert images, icons, and bullet points

Add relevant images and icons to visually support your content.
Use bullet points to present information in a structured and easy-to-read format.

Apply a theme

Choose a professional theme from the design options available in the software. The theme will automatically set consistent fonts, colors, and backgrounds.

Add transitions and animations

Apply slide transitions for smooth movement between slides.
Add animations to text or images to enhance the presentation without overusing effects.

OUTPUT:-

Carrer aspirations in robotics !

1

What is Robotics ?

ROBOTICS IS A FIELD OF ENGINEERING AND COMPUTER SCIENCE FOCUSED ON THE DESIGN, CONSTRUCTION, AND OPERATION OF ROBOTS. IT INVOLVES CREATING PROGRAMMABLE MACHINES THAT CAN PERFORM PHYSICAL TASKS, USING COMPONENTS LIKE SENSORS TO GATHER INFORMATION AND ACTUATORS TO MOVE. ROBOTS ARE USED IN MANY APPLICATIONS, SUCH AS MANUFACTURING, MEDICINE, SPACE EXPLORATION, AND HELPING WITH DANGEROUS OR REPETITIVE JOBS

Why ROBOTICS ?

advantage's

- Robotics increases efficiency and productivity by automating repetitive tasks, allowing for faster operations and less human error.
- Robots enable improved safety by performing dangerous jobs that could harm humans, such as in hazardous manufacturing or medical procedures.

Disadvantage's

- Robots enable improved safety by performing dangerous jobs that could harm humans, such as in hazardous manufacturing or medical procedures.
- Technical challenges such as downtime, glitches, or breakdowns can disrupt operations and require human intervention to resolve.

Career in robotics

Robotics Engineer

3

4

Robotics mechanical engineer

Robotics software engineer

1

2

Robotics technician

Required skill*

- **Programming:** Proficiency in languages like C, C++, and Python.
- **Mathematics:** Strong foundation in algebra and calculus.
- **Engineering disciplines:** Knowledge of mechanical, electrical, and computer engineering principles.

Specialized knowledge

•**Computer Vision**: Image processing and machine learning.

•**Control Systems**: PID controllers.

•**CAD/CAE**: Software like Solidworks , CATIA, and Ansys.

Learning Path for Robotics careers

1. **Build a foundational education**

Bachelor's degree:

Earn a bachelor's degree in mechanical engineering, electrical engineering, computer science, or mechatronics. Many universities offer specialized programs or concentrations in robotics.

Strong fundamentals:

Take courses in mathematics (algebra, calculus, statistics) and physics (Newton's laws, motion, mechanics).

2. Develop core technical skills :

Programming:

Become proficient in programming languages crucial for robotics, such as Python and C++.

Engineering disciplines:

Focus on key areas like mechanical design, electrical systems, and control systems.

@Future initiatives

- Future initiatives in the robotics industry are focused on advancing artificial intelligence (AI), enhancing human-robot collaboration, and expanding into new, complex fields like sustainable robotics and soft robotics. The integration of robotics with other technologies like the Internet of Things (IoT), 5G, and Digital Twin technology is central to these developments.

THANK YOU !!!

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