Creating presentation using **Latex**

September 3, 2019

- To start our presentation we need to set the document class to beamer.
- Syntax:

```
\documentclass{beamer}
```

- To add slides in we use the frame environment..
- Syntax:

  \begin{frame}......\end{frame}

Adding a titlepage

- On our title slide we need to add title, subtitle, author, institute and date information.
- Syntax:

```
\title{<Title>}
\subtitle{<Subtitle>}
\author{<Author Name>}
\institute{<Institute Name>}
\date{\today}

To make this work we use:
\titlepage
```

Lists

- Lists are a common way to present information in presentations and they're very easy to set up.
- Syntax:

  `\begin{itemize}.....\end{itemize}`
- To set up different bullets we use:

  `...\item`

- To add figure we use

  `\begin{figure}.....\end{figure}`

- To specify file name and caption for image we use

  `\includegraphics[scale=0.5]{<figure_name>}`
  `\caption{<caption_name>}`

- To add themes we use

  \usetheme or \usecolortheme
- Different themes available:
  - Boadilla,Madrid,Antibes,Hannover,etc
- Different colorthemes available:
  - `http://deic.uab.es/~iblanes/`
    `beamer_gallery/index_by_color.html`

- ▶ Basic equations in LATEX can be easily "programmed"
- ▶ To put your equations in inline mode use one of these delimiters:

  \(\), $ $ or \begin{math} \end{math}.

  They all work and the choice is a matter of taste.

- For Example: $x^2 + y^2 = z^2$
  i.e Pythagoras theorem is written in Latex as

  `\(x^2 + y^2 = z^2\)`

- Also complex equations:

$$\int_a^b x^2 dx$$

  as

  `$$\int_{a}^{b} x^2 dx$$`

-

$$d(x, y) = \sqrt{\sum_{i=1}^{n} (p_i - q_i)^2}$$

$$d(x, y) = \sum_{i=1}^{n} |p_i - q_i|$$

- Also complex equations:

$$\int_a^b x^2 dx$$

as

```
$$\int_{a}^{b} x^2 dx$$
```

Biblography

- ▶ For biblography we create a .bib file
- ▶ We write citation details in that file
- ▶ Then we use

  \cite{citation name}

  where we want to give reference number and

  \bibliography{file_name}
  \bibliographystyle{ieeetr}

  at the end of file inside frame environment