Program-1

\documentclass{article}

\usepackage{fancyhdr}

\usepackage{lipsum}

\pagestyle{fancy}

\fancyhf{}

\rfoot{\thepage}

\lhead{\textbf{title of document}}

\lfoot{\textbf{JSSATEB}}

\begin{document}

\section{section}

\lipsum[1]

\section{section}

\lipsum[2]

\end{document}

Program-2

\documentclass{article}

\usepackage{lipsum}

\title{Sample Abstract/Summary}

\author{}

\date{}

\begin{document}

\maketitle

\section\*{Abstract}

\lipsum[1]

\vspace{0.5cm}

\lipsum[3]

\end{document}

Program-3

\documentclass[12pt]{article}

\usepackage[utf8]{inputenc}

\usepackage{geometry}

\usepackage{graphicx}

\usepackage{setspace}

\usepackage{xcolor}

\geometry{a4paper,margin=1.5cm}

\begin{document}

\begin{center}

\vspace\*{-0.5cm}

\huge

\textbf{VISVESVARAYA TECHNOLOGICAL UNIVERSITY}\\

\vspace{0.5cm}

\large

BELAGAVI, KARNATAKA-590 018\\

\vspace{0.5cm}

\begin{center}

\includegraphics[width=3cm]{/home/cse/Downloads/VTU-Logo.jpeg}

\end{center}

\vspace{0.5cm}

\large

\textbf{INTERNSHIP REPORT}\\

\vspace{0cm}

\large

ON\\

\vspace{0cm}

\textbf{PROJECT NAME}\\

\vspace{0.1cm}

\large

Submitted in partial fulfilment of the requirements for the Assignment

(BPLCK205B) course of the 4th semester.\\

\vspace{1cm}

\large

\textbf{BACHELOR OF ENGINEERING IN}\\

\textbf{COMPUTER SCIENCE AND ENGINEERING}\\

\vspace{0cm}

\large

\textbf{By}\\

\vspace{0.5cm}

\normalsize

STUDENT NAME1 [USN]\\

STUDENT NAME2 [USN]\\

STUDENT NAME3 [USN]\\

\vspace{0cm}

\large

\textbf{Under the guidance of}\\

\vspace{0.5cm}

\normalsize

Guide Name\\

Asst. Professor, CS\&E Department\\

\vspace{1cm}

\begin{center}

\includegraphics[width=3cm]{/home/cse/Downloads/JSS-LOGO.jpeg}

\end{center}

\vspace{0.5cm}

\large

JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU\\

Department of Computer Science and Engineering\\

2022 – 2023\\

\end{center}

\end{document}

Program-4

\documentclass[12pt]{article}

\usepackage[utf8]{inputenc}

\usepackage{geometry}

\usepackage{graphicx}

\usepackage{setspace}

\usepackage{xcolor}

\geometry{a4paper,margin=1.5cm}

\begin{document}

\huge

\textbf{\textcolor{red}{JSS MAHAVIDYAPEETHA, MYSURU}}

\vspace{0.5cm}

\Large

\begin{center}

\textbf{\textcolor{red}{JSS Academy Of Technical Education}}

\end{center}

\normalsize

\begin{center}

JSS Campus, Uttarahalli Kengeri Main Road, Bengaluru – 560060\\

Department of Computer Science and Engineering\\

\end{center}

\begin{center}

\includegraphics[width=3cm]{/home/cse/Downloads/JSS-LOGO.jpeg}

\end{center}

\Large

\vspace{1.5cm}

\hspace{5.9cm}\textbf{\textcolor{red}{CERTIFICATE}}\\

\normalsize

\begin{doublespace}This is to certify that the assignment entitled “INTERNSHIP NAME” is a benefited

work carried out by STUDENT NAME1, STUDENT NAME2, STUDENT NAME3

bearing USN 1JS22CS, 1JS22CS, 1JS22CS bonafide student of JSS Academy of

Technical Education in the partial fulfillment for the award of the Bachelor of

Engineering in Computer Science \& Engineering of the Visvesvaraya Technological

University, Belgaum, during the year 2022-23. It is certified that all corrections /

suggestions indicated for Internal Assessment have been incorporated in the report

deposited in the departmental library. The assignment report has been approved as it

satisfies the academic requirements in respect of assignment work prescribed for

the said degree.\\

\vspace{2cm}

\textbf{\textcolor{red}{Guide Name}}\hspace{7.9cm}\textbf{\textcolor{red}{Dr. P

B Mallikarjuna}}\\

Asst. Professor, CS\&E Department\hspace{3.9cm}Associate Prof \& HOD, CS\&E Department\\

JSSATE, Bengaluru\hspace{7.6cm}JSSATE, Bengaluru

\end{doublespace}

\end{document}

Program-5

\documentclass[12pt]{article}

\usepackage{amsmath}

\usepackage{graphicx}

\begin{document}

\begin{center}

\begin{LARGE}

\textbf{TABLE DEMO}

\end{LARGE}

\end{center}

\section\*{Marks Table}

\begin{tabular}{|c|c|c|c|c|c|}

\hline

\multirow{S.No} & \multirow{USN} & \multirow{Student Name} & \multicolumn{3}{c|}{Marks} \\

\cline{4-6}

& & & Subject1 & Subject2 & Subject3 \\

\hline

1 & IJSCS22 & Name 1 & 88 & 77 & 97 \\

\hline

2 & IJSCS22 & Name 2 & 74 & 78 & 66 \\

\hline

3 & IJSCS22 & Name 3 & 88 & 82 & 79 \\

\hline

\end{tabular}

\end{document}

Program-6

\documentclass[10pt,a4paper]{article}

\usepackage[utf8]{inputenc}

\usepackage{amsmath}

\usepackage{amsfonts}

\usepackage{amssymb}

\usepackage{caption}

\usepackage{subcaption}

\usepackage{graphicx}

\usepackage[left=2cm,right=2cm,top=2cm,bottom=2cm]{geometry}

\begin{document}

\section\*{Subfigure Demo}

\begin{figure}[h]

\centering

\begin{subfigure}[b]{0.3\textwidth}

\centering

\includegraphics[width=\textwidth]{/home/cse/Downloads/Line-Graph.jpeg}

\caption{LINE GRAPH}

\label{fig:y equals x}

\end{subfigure}

\hfill

\begin{subfigure}[b]{0.3\textwidth}

\centering

\includegraphics[width=\textwidth]{/home/cse/Downloads/Bar-Graph-.png}

\caption{BAR GRAPH}

\label{fig:three sin x}

\end{subfigure}

\hfill

\begin{subfigure}[b]{0.3\textwidth}

\centering

\includegraphics[width=\textwidth]{/home/cse/Downloads/piegraph.jpeg}

\caption{PIE GRAPH}

\label{fig:five over x}

\end{subfigure}

\caption{Three simple graphs arranged side-by-side}

\label{fig:three graphs}

\end{figure}

\end{document}

Program-7

\documentclass{article}

\usepackage{amsmath}

\begin{document}

\section\*{Equations Set 1}

\begin{align}

x = \frac{-b \pm \sqrt{b^{2}-4ac}}{2a} \\

= \frac{-2 \pm \sqrt{2^{2}-4\*(1)\*(-8)}}{2\*1} \\

=\fract{-2 \pm \sqrt{4+32}{2}}

\end{align}

\section\*{Equations Set 2}

\begin{align}

\varphi\_{\sigma}^{\lambda} \cdot A\_{t} &= \sum\_{\pi \in C\_{t}} \text{sgn}(\pi) \cdot \varphi\_{\sigma}^{\lambda} \cdot \varphi\_{\pi}^{\lambda} \notag \\

&= \sum\_{\tau \in C\_{\sigma}^{t}} \text{sgn}(\sigma^{-1} \tau \sigma) \varphi\_{\sigma}^{\lambda} \varphi\_{\sigma^{-1} \tau \sigma}^{\lambda} \notag \\

&= A\_{\sigma}^{t} \varphi\_{\sigma}^{\lambda} \notag

\end{align}

\end{document}

\end{document}

Program-8

\documentclass{article}

\usepackage[english]{babel}

\usepackage{amsthm}

\newtheorem{theorem}{Theorem}[section]

\newtheorem{corollary}{Corollary}[theorem]

\newtheorem{lemma}[theorem]{Lemma}

\theoremstyle{definition}

\newtheorem{definition}{Definition}[section]

\begin{document}

\section{Numbered theorems, definitions, corollaries and lemmas}

Theorems can easily be defined:

\begin{theorem}

Let \(f\) be a function whose derivative exists in every point, then \(f\) is

a continuous function.

\end{theorem}

\begin{theorem}[Pythagorean theorem]

\label{pythagorean}

This is a theorem about right triangles and can be summarised in the next

equation

\[ x^2 + y^2 = z^2 \]

\end{theorem}

And a consequence of theorem \ref{pythagorean} is the statement in the next

corollary.

\begin{corollary}

There's no right rectangle whose sides measure 3cm, 4cm, and 6cm.

\end{corollary}

You can reference theorems such as \ref{pythagorean} when a label is assigned.

\begin{lemma}

Given two line segments whose lengths are \(a\) and \(b\) respectively there is a

real number \(r\) such that \(b=ra\).

\end{lemma}

\begin{definition}[Absolute value function]

The absolute value function can be specified as a two-part definition as follows: \\

$

|x| =

\left\{

\begin{array}{ll}

x & \mbox{if } x \geq 0 \\

-x & \mbox{if } x < 0

\end{array}

\right.

$

\end{definition}

\end{document}