\documentclass{article}

\usepackage[utf8]{inputenc}

\usepackage{graphicx}

\usepackage{float}

\usepackage{natbib}

\usepackage{fancyhdr}

\pagestyle{fancy}

\fancyhf{}

\rhead{\thepage}

\cfoot{15 APRIL 2018}

\begin{document}

\title{{\Huge TECHNICAL REPORT\\ ON \\ SPACE ROBOTICS}}

\author{{\LARGE CHETNA GUPTA\\16103040}}

\date{}

\maketitle

\begin{figure}[H]

\centering

\includegraphics[scale=0.5]{pec\_seal.png}

\end{figure}

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PUNJAB ENGINEERING COLLEGE

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\date{15 April 2018}

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\section{Introduction}

The space exploration has always been a suicidal mission for astronauts.The first Satellite was launched on October 4,1957 making Russian Lt. Yuri Gagarin the first human to orbit Earth.After that the space technology is extensively developing with every passing year.Now astronauts can spend as long as 1 year in space. NASA is trying to reduce the human effort in space by deploying space robots who can extensively assist astronauts in tasks.\\

`Space robotics is the development of general purpose machines that are capable of surviving (for a time, at least) the rigors of the space environment, and performing exploration, assembly, construction, maintenance, servicing or other tasks in space.`\citep{def}\\

Robots can perform tasks less expensively and with improved performance over humans doing the same task.They can survive in extreme environmental conditions of space and can be sent to places which are otherwise inaccessible by humans.Moreover in many space missions,the cost of returning back to space is very huge.So,by using these robots that cost can also be reduced.Robots require less infrastructure and less safety requirements thus making them more useful in space exploration industry.

\section{}

\section{Conclusion}

\bibliographystyle{plain}

\bibliography{references}

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