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■ **BPIT**

Bhagwan Parshuram Institute of Technology

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From the Chief Patron’s Desk



It is rightly said:

“Investment in knowledge pays the best interest.”

At BPIT, we believe that an investment in education is an investment in people and their promising future. In 2005, we set ourselves an ambitious goal of establishing a quality education institution in India with a mission to offer outstanding learning and educational services to the community. We are deeply grateful to those who have assisted us and participated in the accomplishment of this goal, i.e. the establishment of BPIT.

BPIT is committed to develop and enhance the offered accredited academic programs, services, and facilities to enable the institution’s stakeholders to achieve their goals. During the previous years, though we faced many challenges, we were determined to continue the fulfillment of BPIT’s mission of providing accessible and valued education in India.

BPIT has demonstrated quality teaching. Its faculty members have proved their commitments to share their knowledge, talent, and experience into learning and teaching. At BPIT, we have proved that the institute is capable of pursuing the never-ending quest for quality technical education and research. As a means of striving towards this goal of excellence, I feel proud to present the issue (Volume 10) of BODH: BPIT International Journal of Technology and Management.

This journal is a sincere and dedicated effort of the learned faculty and management to disseminate their wealth of knowledge in the fields of technology and management. This journal would provide a great opportunity to make them more influential, dynamic and innovative. I feel proud to acknowledge the contribution of highly qualified, multi-talented faculty and the college management, for working tirelessly to enrich the content of this journal.

Sh. Vinod Vats
Chairman, BPIT



From the Editor-in-Chief's Desk

BPIT has always looked forward to upgrade itself to fulfil its mission and vision to provide quality education. The function of education is to teach one to think intensively and to think critically.

It gives me immense joy to present the issue (Volume 10) of BODH: BPIT International Journal of Technology and Management, which includes research papers from Technology and Management. This journal is a tool for building knowledge and for facilitating learning. The journal is a good means of extending knowledge to the research scholars, professors, scientists and students regarding the current issues related to engineering and management. The journal is an amalgam of the efforts of the highly dedicated faculty who have worked day in and day out for the successful launch of this issue of BODH. I congratulate all for this sustained effort that has produced such outstanding results.

On behalf of our editorial team, I would like to offer a word of thanks to our readers, contributors, authors, editors and anonymous reviewers, all of whom have volunteered to contribute to the success of the journal and also for its mission to improve the quality of research in the form of publication. We are publishing our journal annually with a particular emphasis on quality, novelty and better outcomes of research.

I extend my whole-hearted thanks to Hon'ble Chairman Sh. Vinod Vats and the entire management of BPIT for their untiring support and worthy guidance.

Thank you. We hope you will find BBIJTM more informative in the future endeavor.

Prof. Payal Pahwa
Principal, BPIT

From the Associate Editor’s Desk



BBIJTM

It gives me immense pleasure to present the issue (Volume 10) of “Bodh”, Bhagwan Parshuram Institute of Technology’s International Journal of Technology & Management. I am equally elated to inform you all that BBIJTM has been contributing tremendously to improve the quality of research by publishing its issues regularly since 2015. An enormous amount of work has been done towards the development of this journal.

The current issue presents a compilation of five research papers in the emerging fields of engineering, science, management and technology. The first paper proposes a comparative analysis of machine learning classifiers for breast cancer prediction. The second paper proposes fake news detection using Natural Language Processing (NLP). The next paper focusses on understanding the credit card fraud detection using machine learning. The fourth paper delves into the wavelet and bioinspired algorithms based medical image fusion. The analysis of BER and Q-Factor of optical fibers in a communication network is presented in the fifth paper.

I wish to express my sincere gratitude to the editorial advisory board, the editorial board and the panel of reviewers, who brought out the best knowledge from the authors. Also, I thank the authors for showing their interest in the Journal. I would also like to thank our Patron, Hon’ble Chairman Sh. Vinod Vats, the advisory board and editorial team for their motivation and support in bringing out yet another edition of the journal.

Prof. Achal Kaushik
Associate Editor

S. No.	Title of the Paper	Author (s)
1.	A Comparative Analysis of Machine Learning Classifiers for Breast Cancer Prediction	Anju Kaushik and Ayushi
2.	Fake News Detection Using Natural Language Processing (NLP)	Pooja Sapra, Yashika Tyagi, Ridhima Jain, and Agrima Aggarwal
3.	Credit Card Fraud Detection Using Machine Learning	Sabnam Kumari, Pooja Sapra, Divyanshu Pratap Singh, Heramb Sharma, Devesh Kajla and Rohit Gupta
4.	Wavelet and Bioinspired Algorithms based Medical Image Fusion	Deepanshu Kaushik, Jayant Bhardwaj and Abhijit Nayak
5.	Analysis of BER and Q-Factor of Optical Fibers in a Communication Network	Garima Kaushik, Sadaf Najam Samruddha Patil and Dr. Komal Bhagat