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Dr. Vigneshwari

PRINCIPAL
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Vellore District, Tamil Nadu.

DARTS

A Voyage of Learning English

The Department of English
Auxilium College (Autonomous)
Vellore

B L O O M S B U R Y
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Foreword

The art of learning the English Language often eludes many a student pursuing an undergraduate course. Inhibitions have their sway over his/her genuine desire to acquire it. A deliberate lack of exposure to the use of English in the right way has thwarted their endeavour.

Let us take our illustrious student down memory lane to recall some of his/her childhood memories; when life was free and happy; when poets and writers created word pictures that were perhaps hardly understood. Their nuances and colours still remain. The voyage of learning through a fantasy world of children will simultaneously enhance their vocabulary. It will also initiate their efforts to discover meanings and to use words in the right sense.

It is a combined venture of the Faculty of the Department of English, Auxilium College(Autonomous) to help improve the language skills of students, to provide training in reading and analyzing, speaking and writing, even thinking in English!

After a magical experience through Semester I, the students will learn the English language in an Indian context in Semester II, wherein the climes, cultures and personages make a lasting impression on the mind. The depiction of Indian scenes and recognition of things familiar, inspire and motivate the learning process. We hope that the passionate attempts of the teacher to

impart knowledge and skill and the hard work and perseverance of the student to learn the much sought-after English language will be greatly rewarded!

Dr. Vernum Cecilia
Associate Professor & Head
PG & Research Department of English
Auxilium College (Autonomous)
Vellore-632006

Dr. Vernum Cecilia

PRINCIPAL AUXILIUM COLLEGE (Autonomous) Gandhi Nagar, Vellore - 632 006. Vellore District, Tamil Nadu.

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Animal Physiology
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Editor

Dr. CHARUMATHY M

Authors

Dr. ABI BEAULAH G

Mrs. KOUSALYA P

Mrs. AYESHA SABEEN M

Mrs. ANURADHA M

Mr. ARPUTHARAJ P

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QUALITY EDUCATION

J. G. Valan Arasu

Elena Philip • Siby Samuel



About the Editors

Rev. Dr. Fr. J. G. Valan Arasu is the Principal of St. Aloysius' College (Autonomous), Reaccredited A+ Grade by NAAC (CGPA 3.68/4.00) and College with Potential for Excellence by UGC, Jabalpur M.P. and the Additional Director of St. Aloysius Institute of Technology, Jabalpur. Academic achievement include a Doctoral Degree in Economics on "Impact of Globalization on Infrastructural Development in India since 1981". He is also registered as a Research Guide in Economics. He is the member of NAAC peer Team and also member of many academic administrative and profession bodies. He has authored 01 book and edited 12 books published more than 69 articles and research papers in Journal, Books and Newspapers. He has completed 03 Minor Research Projects and organized number of National Seminar, Conferences and workshops sponsored by UGC and other agencies. He has been resource person for Leadership and Human Resource Development Programmes and has conducted several Retreats and Orientation Programmes. As the National Coordinator of World Wide Marriage Encounter, India, he represented the country in various parts of the world for 04 years and conducted orientation programmes and meetings at the international and National Level.

Dr. Elena Philip is the Dean of Social Science, St. Aloysius College (Autonomous), Jabalpur. She has 40 years of teaching experience. Areas of specialization are Macro Economics, Monetary Economics, Economics of Growth and Development, Agricultural Economics, International Economics and Financial Markets. She is a research guide. She has published many research papers and successfully completed UGC sponsored minor and major research projects.



Dr. Siby Samuel is Head of the Department of Computer Science and Application and IQAC Coordinator, St. Aloysius' College (Autonomous), Jabalpur. The area of interest are Database, Networking, AI, and Computer Architecture. She has 16 years of teaching experience in UG and PG level. Computational Mathematics is the area of Research Interest and worked in the domain of One Dimensional Cutting Stock problem. She is a member of International Association of Computer Science and Information Technology (IACSIT) and International association of Engineers. She has convened International and National conferences and Workshops published research papers and edited books.



Dr. J. G. Valan Arasu

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Path Towards Excellence

S. Valentine Usha Kalatchan

Sr. Sumathi M. **

& A. Amalarathinam

"Every today is the fruit of yesterday and a seed for tomorrow"

ABSTRACT

As we are heading towards a Techno-based world, Auxilium College (Autonomous) for Women has exclusively stood up true to the vision of its founders. The word "Auxilium" would mean "Help". The college was started by Mother Cesira Gallina to impart higher education to the young women of the District. The Management makes constant efforts to offer the most conducive environment and necessary infrastructure facilities for the teaching learning process. The beautiful gardens and shady trees sheltering a variety of birds, projects the beauty and charm of Mother Nature. The Salesian Values of orderliness and cleanliness reflects the divine presence and inspires the inmates to rise to higher levels of thinking, learning and living. The Salesian Preventive System of St. John Bosco of educating and accompanying young people today has helped to bring great transformation in the lives of many young women in Vellore District. This system is all based on Reason, Religion and Loving-Kindness.

- * Assistant Professor, Department of Commerce, Auxilium College (Autonomous) Gandhi Nagar, Vellore South India Tamilnadu.
- ** Assistant Professor & H.O.D, Department of History, Auxilium College (Autonomous) Gandhi Nagar, Vellore South India Tamilnadu.
- *** Assistant Professor, Department of Mathematics Auxilium College (Autonomous) Gandhi Nagar, Vellore South India Tamil Nadu.

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Sr. Usha Kalatchan

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 AUXILIUM COLLEGE (Autonomous)
 Gandhi Nagar, Vellore - 632 006.
 Vellore District, Tamil Nadu.

CREATIVITY AND PROBLEM SOLVING THROUGH EDUCATION

Dr Alex George • Dr Bindhu Jose • Dr Bindu Thomas • Dr Jincy Johny

Written by 62 vibrant, expert minds, this book traverses through subjects varying from psychology to literature, conventional education to technological education, and the impact of post-pandemic education. As the title suggests, the book focuses on problem-solving through education and it draws heavily on the experience of education in North-East India, reflecting the voice of the voiceless. It encourages the readers for creativity, critical thinking, problem solving, divergent thinking, etc. As each of the 55 articles contributes positively to the book, the reader can learn to respond than react, not to prove but improve.



CREATIVITY AND PROBLEM SOLVING THROUGH EDUCATION



CREATIVITY AND PROBLEM SOLVING THROUGH EDUCATION

Dr Alex George • Dr Bindhu Jose • Dr Bindu Thomas • Dr Jincy Johny

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CRITICAL THINKING AND PROBLEM SOLVING - AN EMERGING SKILL SET FOR 21ST CENTURY LEARNERS

Dr T Augustine Arul Prasad &
Dr B Scholastica Mary Vithiya

Introduction

In recent times there is a paradigm shift in jobs in all sectors (production sector, education sector, business sector, government sector and non-government sector). All these sectors expect the graduates to possess critical as well as innovative thinking and problem-solving skills. *"Imagination is more important than knowledge. knowledge is limited. imagination encircles the world"*- Albert Einstein. Every graduate needs to imagine, think creatively to stand firm and first in the job market. Only persons with critical thinking can solve problems through out of the box thinking. People who are successful, creative, innovative



V. S. Gowri and V. Sabareesh

Abstract

Rapid growth in the emergence of several microbial strains that show resistance towards a variety of antibiotics and other drugs is posing a serious issue, all over the world. Peptide-based compounds have been sought as alternative agents to resolve this global crisis. The key reason being several peptides, both natural and engineered analogues (motivated from natural ones), were found to elicit good potencies even against the drug-resistant strains. Peptidic molecules were found to have therapeutic potential toward other human diseases as well, such as cancer and diabetes. Consequently, the need for high-throughput techniques that can facilitate swift identification and characterization of peptides from diverse natural sources was imperative. Chromatography, in particular high-performance liquid chromatography (HPLC) and mass spectrometry-based methods, could be adapted for high-throughput characterization of natural peptides. In order to process and analyze huge data sets that result from such high-throughput experiments, development of computational tools, particularly databases, was also necessary. Eventually a new branch of study called “peptidomics” emerged, which encompasses various experimental and computational strategies. A few aspects of this “omics” approach, mainly focusing on sequencing of peptides from diverse biological sources, are described in this chapter.

V. S. Gowri

PG & Research Department of Chemistry, Auxilium College (Autonomous), Vellore, Tamil Nadu, India

V. Sabareesh (✉)

Centre for Bio-Separation Technology (CBST), Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India

e-mail: v.sabareesh@vit.ac.in

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Vellore District, Tamil Nadu.



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Chapter 3
Research Challenges in Pre-Copy Virtual Machine Migration in Cloud Environment
Devi N. Nirmala, Kumar S. Venigatesh
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Summary
The Internet of Medical Things (IoMT) is a blend of medical devices and applications, which promotes clinical knowledge of network technology to analyze medical data. The IoMT supports the patient to share their medical data with the doctor in a secure manner in the implementation of IoMT in healthcare, but

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AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
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Indoor Automated Vertical Farming Using The Concept Of Microgrid

J. Gowrishankar
Professor, Department of EEE
SIETK (AUTONOMOUS)
Puttur, Andhra Pradesh, India
jananishankar18@gmail.com

R. Sarjila
Assistant Professor
Department of Physics,
Auxilium College,
Vellore, Tamil Nadu, India
sarjilar@auxiliumcollege.edu.in

G. Balasundaram
Associate Professor
SV CET, Chittoor,
Andhra Pradesh, India
baliwani.sundaram23@gmail.com

J. Belwin Edward
Associate Professor
SELECT,
Vellore Institute of Technology,
Vellore, Tamil Nadu, India
jbelwinedward@vit.ac.in

I. Jacob Raglend
Professor, SELECT,
Vellore Institute of Technology,
Vellore, Tamil Nadu, India
ijacobraglend@vit.ac.in

V.R. Rajan
Professor, Department of EEE,
SIETK (AUTONOMOUS)
Puttur,
Andhra Pradesh, India
rajan.vrr@gmail.com

Abstract— Vertical cultivating is the metropolitan cultivating of organic products, vegetables and grains inside a structure in a city or metropolitan focus, in which floors are intended to oblige certain yields. This is a high-level degree of agribusiness and joins the procedure, collecting method, water the executives and harvest development. The Micro matrix framework uses the disseminated energy assets including the ordinary electric lattice and an all-around cutting edge and controlled roof sun powered cluster and by utilizing the control sensors, a cloud-associated, request side energy the executives programming stage, will be incorporated in the new framework, permitting the Micro network framework to deal with the sustainable power sources and control the energy spent. The framework will likewise be prepared to work in the island mode so the ranch stays controlled during sudden blackouts. During exceptionally high energy request period supply will be drawn from the framework in case the sun powered doesn't satisfy the energy needs and during periods were the energy request is low we can supply back to the matrix. This will permit a two-way correspondence between the shopper and the energy provider. The course of vertical cultivating is exceptionally robotized requiring sensors, screens and other controlling instruments to impersonate the outer conditions required by the light like light, temperature and other ecological conditions.

Keywords—Solar panel , Arduino controller , stepper motor and led lights

I. INTRODUCTION

The effect of electric force on current agribusiness has been basically just that critical of one or the other steam or gas, since power in its inclination is undeniably more adaptable than the prior power sources. In spite of the fact that there had for some time been logical interest on the impacts power had on plant development, particularly after the improvement of electric lights, it was the advancement of the electric engine that truly acquired the interest of the cultivating local area. A few specialists considered its to be to ranchers as right on time as 1870. A microgrid is a little form of the electric network, which fits the "miniature" thought, yet the beginnings of the word have been lost ever. As indicated by Pike Research, the main "current mechanical microgrid in the United States was a 64 MW office built in 1955 at the Whiting Refinery in Indiana," however the vast majority don't know the idea is a lot more seasoned. The microgrid idea traces all the way back to the start of our industry [1]

In 1882 when Thomas Edison opened his Pearl Street Station there was no norm for an age circulation framework for power, so he planned as he came. Incredibly, Edison's Manhattan Pearl Street Station met the entirety of the present standards for what is the present microgrid framework. It was independent and controlled by coal terminated steam motors that drove six kind sized generators. Every one of his generators delivered 1,100 kW DC. As with most microgrids, Edison's electric framework was little with restricted age and a restricted dissemination organization. It just served a couple of squares toward any path in light of the limitations of the DC transmission organization, which accommodates the present meaning of a microgrid. Curiously, it likewise included batteries to give energy stockpiling.

Microgrids with energy stockpiling is an exceptionally interesting issue today, so by and by Edison was thinking ahead. His framework additionally provided heat from its steam age to structures around its offices. Today we call this consolidated warmth and force - CHP. Indeed Edison's thoughts were right on target. CHP has demonstrated to be truly significant. Indoor robotized vertical cultivating utilizing the idea of microgrids

II. OBJECTIVE

The target and extent of the task is to show how microgrids idea can be applied, for this situation utilizing the indoor vertical cultivating framework where huge measure of force is required. Microgrids are acquiring space available in light of the fact that they permit the shoppers to have unlimited authority over their energy utilization giving them the choice to take part on the course of energy conveyance. This idea can be appropriate for vertical cultivating structures. The upward cultivating market has been developing over the course of the years since it present different benefits contrasted with customary agribusiness, like the use of less space, the use of less water and different assets. The objective is to join these two new types of advances (microgrids and vertical cultivating), to improve approach to deliver food, without hurting the climate and giving individuals new and wellbeing food [2].

III. METHODOLOGY

Vertical cultivating is the act of developing yields in upward stacked layers or coordinated in different designs, (for

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Interpretation of PMSG Based Wind System with High Gain Converters and MPPT Controllers

Kumar K
Dept. of EEE
Sri Venkateswara College of
Engineering (SVCE)
Tirupathi, A.P., India
kumar3kk@gmail.com

V Lakshmi Devi
Dept. of EEE
Sri Venkateswara College of
Engineering (SVCE)
Tirupathi, A.P., India
vldevi.eee@gmail.com

Avagaddi Prasad
Dept. of EEE
Sasi Institute of Technology
& Engineering
Tadepalligudem, A.P., India
prasadavagaddi@gmail.com

R. Sarjila
Assistant Professor
Department of Physics,
Auxilium College,
Vellore, Tamil Nadu, India
sarjilar@auxiliumcollege.edu.in

J. Belwin Edward
Associate Professor
SELECT,
Vellore Institute of Technology,
Vellore, Tamil Nadu, India
jbelwinedward@vit.ac.in

Abstract— Interpretation of wind system designed with PMSG, high gain DC-DC converter and MPPT control methods are presented in this article. The wind and solar energy sources are most striving renewable energy sources among this two, wind source shows a significant role, due to its existence and cleanness compared to the other sources. To maximize the output power from wind system, an MPPT controller and power converter shows a significant role. In this article, system is carry out with Boost and Double Boost converter along with the P&O and BPN MPPT controllers in MATLAB/Simulink and wind system performance is interpreted with different combinations of converters and MPPT controllers and obtained results are compared for interpretation of implemented system.

Keywords— Back propagation, MPPT, Neural network, PMSG, P&O, SEPIC Converter, Wind system.

I. INTRODUCTION

The utilization of renewable sources has been increased in manifold level due to fatigue of fossil fuels. The wind system (WS) is mostly utilized due to its abundant availability [1-3]. The technology advancement and reduction of cost of power production is the primary agenda for wind system. Many efficient and reliable controllers in order to meet the primary agenda are currently under research. The main aim of the controller is to obtain stable, reliable and quality power. Among wind generators, Permanent magnet synchronous generator (PMSG) are mostly suitable for small scale WECS for its gear less operation thus limits the maintenance cost and the hugeness of overall system [4].

The most suitable controller employed in WS to receive the maximum and reliable power is the Maximum power point tracking (MPPT). The MPPT controller is employed in the system to receive power in maximum extent from the WS and also to standardize the voltage in order to maintain the optimum value throughout the operation [5]. Many MPPT algorithms are employed for receiving maximum power from WS such as perturb and observe (P&O), Incremental and Conductance (INC), Fuzzy Logic Controller (FLC), Artificial Neural Network (ANN) and other evolutionary algorithms [6,7].

P&O method is the notable and basic methodology for its simplicity. P&O technique is mainly implemented in the small WS. The implementation of P&O is very simple but because of rapid variation in wind velocity and the P&O has limit to track the maximum power because of slow convergence speed and induces high fluctuation in the output power which results in poor quality power. The another method INC is also similar to P&O method, the INC method compares the power periodically from the previous power but WECS being highly non-linear the INC revolves around the Maximum point and provides fluctuating power [8-10]. Another frequently used control technique which is employed by the researchers is the PI controller. PI controller lacks in the overall efficiency of MPPT from the soaring penetrating winds because of its arbitrary estimation of parameters.

Thus, to overcome the limitations many advanced controller are employed in order to provide better efficiency despite of high non-linear characteristic of wind system. Advance techniques as Fuzzy logic controller (FLC), artificial neural network (ANN) and optimization algorithms are gaining lot of interest in recent times. FLC based control technique are mostly preferred by the researchers for its simplicity and adaptability. In order to obtain the stability the parameters can be revised instantaneously established on the system requirements. The major setback for FLC technique is its dependency on the knowledge of the user. Any alteration in the system makes to change the whole FLC parameters thus making it complex. Another major problem in the FLC system is the memory allocation. Thus to overcome all the above issues, ANN technique is implemented. ANN techniques have fast convergence and are capable to adapt in highly non-linear system [11].

The integration of WS uses DC/DC converter to meet its requirement based on the load conditions and a Back propagation based MPPT is chosen to track the MPPT from the wind and the results are correlated to the classical P&O method. The performance of both the MPPT controllers are analyzed and performed with Boost and Double Boost converter. The performance is interpreted with the rapid changes of wind velocity to check the stability. The topology

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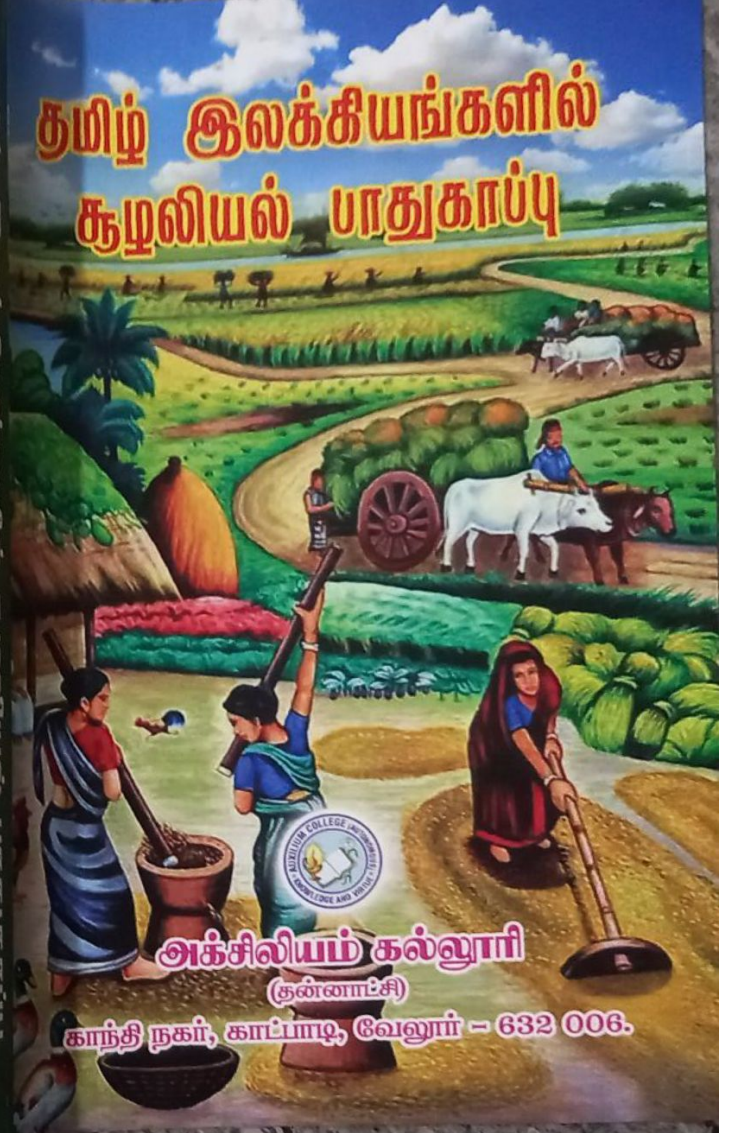
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AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.



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मोबाइल : 8072361911
ईमेल : yadikiwahab@gmail.com



स्वाक्षर

(प्रकाशक एवं वितरक)
103, मनाकासना धवन, गली न-2, कंलाशपुरी
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सम्पादक

डॉ. श्रेष्ठ अब्दुल वहाब

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BY
Ed. Dr. SHAIK ABDUL WAHAB

भूमिका

(स्वातंत्र्योत्तर हिन्दी साहित्य में मानवता का स्वर)

सृजन और जीवन, समय के साथ चलते हैं। समय के अनुसार जीवन में जो कुछ घटता है उसे ही साहित्य में अभिव्यक्त किया जाता है। समय को अभिव्यक्त करते हुए साहित्य समय पर यात्रा करता है और कालजयी बन जाता है किन्तु वही साहित्य कालजयी होता है जो अपने समय के जीवनरस से अभिसिंचित होता है जिसमें अपने समय की सूक्ष्म और गहन अभिव्यक्ति होती है। आदिकाल से लेकर आज तक हिन्दी साहित्य के रचनाकारों ने अपने सृजन में अपने समय और जीवन के हर आयाम को बड़ी गहनता और विस्तार के साथ अभिव्यक्ति दी है। इसीलिए हर काल और युग की प्रवृत्तियाँ अलग-अलग हैं। आदिकाल में जहाँ वीर रस प्रधान काव्यग्रंथों की रचना हुई तो वहीं भक्तिकाल में रामचरितमानस जैसे महाकाव्य का सृजन हुआ। प्रायः हर युग के ऐसी कालजयी रचनाएँ हैं जो आज भी हिन्दी साहित्य जगत में सम्मानित और प्रासंगिक हैं। रामचरितमानस तो भारतीय परम्परा, संस्कृति और मानव मूल्यों की आचारसहिता मानी जाती है। इसका प्रमुख कारण उसमें निहित मानवता की भावना है। उसी साहित्य को लोगों के हृदय में स्थान मिलता है जिसमें 'सर्वे भवन्तु सुखिनः' का भाव होता है जिसमें 'परहित सरिस धरम नहीं भाई' का उपदेश होता है।

स्वतंत्रता के बाद का युग हिन्दी साहित्य में जनचेतना का युग था। यह वह युग था जब भारतीय राजनीति में बहुत उथल-पुथल थी। अखण्ड भारत की स्वाधीनता का स्वप्न देखने वालों के स्वप्न चकनाचूर हो गये और जो स्वाधीनता मिली वह विभाजन की त्रासदी से आहत होकर बिलखती हुई थी। यह समय केवल अपने ही नहीं वरन् समूची मानवता के घावों पर कोमल स्पर्श रखने वाला था। ऐसे में आवश्यक था कि देश में सांप्रदायिक सौहार्द कायम रहे और लोग किसी भी प्रकार के भेदभाव को अपने हृदय में पनपने न दें। इसीलिए इस समय के साहित्य में भी मानवता के स्वर मुखर हुए।

भैरवप्रसाद गुप्त के उपन्यासों में मानवता का स्वर

डा. ए.एस.एम. चेरियन

सामाजिक चेतना के प्रबल हिमायती भैरवप्रसाद गुप्त ने अपने उपन्यासों में समसामयिक जीवन का सर्वांगीण चित्र अंकित किया है। आपके उपन्यासों में आज़ादी के बाद के समूचे भारत की पूरी तस्वीर अपनी तमाम अच्छाइयों-बुराइयों के साथ प्रस्तुत किया गया है। भैरव प्रसाद ग्रामीण समाज की वास्तविकता के कुशल चित्तरे हैं।

स्वातंत्र्योत्तर सामाजिक-राजनीतिक परिप्रेक्ष्य में उन्होंने अपनी रचनाओं की सर्जना की है। सामाजिक असमानता, परंपरागत रूढ़ियाँ अंधविश्वास, सांप्रदायिकता, गरीबी, बेकारी, असंगठित क्षेत्रों के अनाचार, नारी की आधिक परतंत्रता विधवाओं की विपन्नावस्था, किसान-मजदूर समस्या, सामंती-पूजीवादी शोषण ये सब समाज को पतनावस्था की ओर से चला था। भैरव प्रसाद गुप्त ने सामाजिक असमानताओं के विरुद्ध तीव्र आक्रोश प्रकट करते हुए समाज से ग्रसित समस्याओं को बड़ी कुशलता से अपनी रचनाओं में उभारा है। शोषित पीड़ित सब प्राणियों के प्रति संवेदनशीलता आपके उपन्यासों में स्पष्ट दृष्ट्य है।

प्रेमचंद ने 'कुछ विचार' में ठीक व्यक्त किया है कि "साहित्य में जो सबसे बड़ी खूबी है, वह यह है कि वह हमारी मानवता को दृढ़ बनाता है हम में सहानुभूति और उदारता के भाव पैदा करता है।" भैरव प्रसाद गुप्त की प्रतिबद्धता समाज के प्रति है, आम जनता के प्रति है आम जनता के प्रति पक्षधरता तथा व्यापक मानवीय प्रतिबद्धता आपके कथा साहित्य का प्राणतंत्र है।

गंगा मैया 1952 भैरवप्रसाद गुप्त जी के सामाजिक चेतना प्रधान

उपन्यासों के बहुचर्चित एवं महत्वपूर्ण है। 'गंगा मैया' में सामंती शोषण के विरुद्ध किसान के प्रति संघर्ष का और ?? मजदूरों के संघर्ष को यथार्थ चित्रण हुआ है। सत्ती मैया का चौरा तो बीसवीं सदी के हिन्दुस्तान की यथार्थवादी संघर्षशील चेतना के बदलते हुए और उन्नत करते हुए रूपों की महाकथा है।

भैरवजी के उपन्यासों के समाज के नवनिर्माण के आशावादी स्वर गुँज रहे हैं। सामाजिक परिवेश के अनुसार सजीव पात्रों की सृष्टि इन्होंने की है। मटरू ऐसा सशक्त मानवतावादी पात्र है जो एक ओर रूढ़िवादी परंपरा के विरुद्ध लड़कर विधवा भाभी का विवाह देवर गोपी से कराके विधवा समस्या का व्यावहारिक हल प्रस्तुत करता है तो दूसरी ओर जमींदारों के विरुद्ध किसानों के नेता बनकर अपने अधिकार के लिए लड़ते हैं, लड़ाते हैं। मन्ने (सत्ती मैया का चौरा) नटेन (अशाल) आदि पात्र भी वर्गचेतना से प्रेरित होकर सामंती पूजीवादी शक्तियों के विरुद्ध लड़ाई करते दिखाई पड़ते हैं। नवनिर्माण की प्रेरणा से युक्त संघर्ष ही इन उपन्यासों में हम देख सकते हैं किसान, मजदूर, नारी जैसे समाज के अभावग्रस्त शोषित, पीड़ित आम जनता से आत्मसात होकर उनमें उमंग और उत्साह भरकर संगठित शक्ति के बारे में बताकर, वैज्ञानिक शिक्षा प्रदानकर, संघर्ष रचाकर एक नये समाज की सृष्टि करना भैरव जी का लक्ष्य है।

सामाजिक रचनाकारों के स्पष्ट अभिवादन और सैद्धांतिक बोझिलता के बावजूद आपके उपन्यासों में ऐसे अनेक मार्मिक स्थल हैं जो शकरी संवेदना से प्राणवंत हो रहे हैं। देशज की समस्याओं, कठिनाइयों और आर्थिक विपन्नता में निकट परिचय के कारण उनके मन में सामान्य जनता के प्रति जा रही सहानुभूति होती है। मानवीय संवेदनाओं की उदात्त स्थितियों को उन्होंने विशाल आधार फलक पर व्यंजित किया है।

गंगा मैया में एक प्रसंग ऐसा होता है कि अज्ञान किसानों के प्रति हमारा हृदय द्रवित हो उठता है। गंगा मैया का बेटा निर्भोक, साहसी मटरूसिंह भूमिहीन किसानों को संगठित कर जमींदारी शोषण के विरुद्ध संघर्ष करते हैं। भैरव जी ने मटरू के माध्यम से अपना प्रगतिवादी दृष्टिकोण को व्यक्त