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3.	Dr.T.Selvankumar	Microbial Biodegradation of Xenobiotic Compounds	Bioaugmentation and Biostimulation Remediation Technologies for Heavy Metal Lead Contaminant	9781-138743922	CRC Press Taylor and Francis group
4.	Dr.T.Selvankumar, Dr.C.Sudhakar	Microbial Biodegradation of Xenobiotic Compounds	Microbial Removal of Dye Stuffs	9781-138743922	CRC Press Taylor and Francis group
5.	Dr.K.Selvam Dr.T.Selvankumar	Microbial Catalysts	Industrial Applications of Microbial Enzymes	978-1-53616-088-8	Nova Science Publishers
6.	Dr.V.Vignesh	Dheem	-	978-93-87882-91-1	Today Graphics, Chennai - 05
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8.	Mrs.P.Sujatha	Feministic and Socialistic approaches in New Literature	The quest for identity in bharathi mukherjees jasmine	97893863881000	Jupiter Publication


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Innovations and Technologies for Soft Skill Development and Learning




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Suresh Kumar Nagarajan and Mohanasundaram R.

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Suresh Kumar Nagarajan
VIT University, India

Mohanasundaram R.
VIT University, India

A volume in the Advances in
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Table of Contents

Foreword xxii

Preface xxiii

Acknowledgment xxvii

Chapter 1

Communication Through Classics: An Innovative Approach in Language Teaching 1
Punitha S., Vellalar College for Women (Autonomous), India

Chapter 2

Teaching English Language and Critical Thinking Through Authentic Short Videos (Ted Talks) 9
Sudhalakshmi Panneerselvam, Vellalar College for Women (Autonomous), India

Chapter 3

Teaching of Foreign Languages for Engineering Students in Indian Contexts ... 17
Calaivanane R., VIT University, India
Karthikeyan J., VIT University, India

Chapter 4

A Study on Incorporating Narrow Reading Into Engineering Program Curriculum to Teach New Words 23
Challa Srinivasa Rao, Sreenidhi Institute of Science and Technology, India
Suresh Babu Karayil, Vasireddy Vekatadri Institute of Technology, India



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Chapter 5

The Demand of Employable Soft Skills for the IT Industry: An Empirical Study in the State of Andhra Pradesh32

Yadamala Sreenivasulu, VIT University, India

Akhil Kumar Jha, Madanapalle Institute of Technology and Science, India

Chapter 6

An Experiential Study on the Learners' Perception of E-Learning and Traditional Learning46

Anu Baisel, VIT University, India

Vijayakumar M., VIT University, India

Sujatha P., Mahendra Arts and Science College, India

Chapter 7

From Lexis to Discourse: A Five-Stage Pedagogy for ESL Learners53

Sangeetha Noval, Bhartiya Skill Development University, India

Kripa K. Gautam, Jaipur National University, India

Chapter 8

Students' Behaviour in the Classroom Environment: A Review61

Anbarasu A., VIT University, India

Bhuvanewari M., VIT University, India

Chapter 9

Classroom Experiments and Experience Using Skill Genie.....72

Sasirekha K., Mepco Schlenk Engineering College, India

Suresh G. S., Mepco Schlenk Engineering College, India

Chapter 10

Intra-Personal Emotional Intelligence Among College Students in Vellore District of Tamil Nadu81

Dunstan Rajkumar A., VIT University, India

Ajay Kumar Sharma, Salalah College of Technology, Oman

A. Manikandan, VIT University, India

Chapter 11

Assessment of Vocabulary Levels Among Regional Middle School Students....91

Praveen Kumar, VIT University, India

Prasantha Kumar, VIT University, India



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Chapter 12

An Exploration on Issues and Challenges in Teaching Writing Skills to Tertiary-Level Learners98

*Jefferson K., Kongu Engineering College, India & K. S. Rangasamy
College of Arts and Science, India*

*Ramya Sri R., Kongu Engineering College, India & K. S. Rangasamy
College of Arts and Science, India*

Radhakrishnan V., K. S. Rangasamy College of Arts and Science, India

Chapter 13

iGeneration Methodology 108

Aruldoss L., K. Ramakrishnan College of Technology, India

Sujitra A. G., K. Ramakrishnan College of Technology, India

Vijayalakshmi R., K. Ramakrishnan College of Technology, India

Chapter 14

NLP Technique: A Pre-Listening Activity in Enhancing Listening Skill – A Pilot Study..... 115

Subbu Nisha M., Vellore Institute of Technology, Chennai, India

Rajasekaran V., Vellore Institute of Technology, Chennai, India

Chapter 15

A Derivative Approach Towards Activity-Centred Language Teaching: Activity-Centred Classrooms 124

Ritu Shepherd, Nehru Arts and Science College, India

Susmi Mariam Varghese, Nehru Arts and Science College, India

Chapter 16

Social and Cultural Factors Influence on English Speaking Abilities 133

Ramappadu Kakita, Vignan's Institute of Information Technology, India

*Vijaya Babu Palukuri, Vignan's Foundation for Science, Technology,
and Research, India*

Chapter 17

Theories of Social Media and Learning: A Study on the Use of Social Media by Undergraduate Students 142

*Lourduraj Ignacimuthu, Karunya Institute of Technology and Sciences,
India*

*Mallika Vijaya Kumar, Karunya Institute of Technology and Sciences,
India*

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Chapter 18

A Study on the Application of Technology for Quantitative and Qualitative Analysis in Language Research 155

Shiny K. G., VIT University, India

Karthikeyan J., VIT University, India

Binoy Barman, Daffodil International University, Bangladesh

Chapter 19

Robotics for Education..... 172

Nikita Suryawanshi, VIT University, India

Revati Landge, VIT University, India

Upasana Sivaramakrishnan, VIT University, India

Karthikeyan J., VIT University, India

Chapter 20

Counter-Narratives: Voicing Against Dominant Black Narratives With Identity Issues in Toni Morrison's Selected Novels..... 178

Horizan Prasanna Kumar, SRM Institute of Science and Technology, India

Meadows Bose, Mahindra World School, India

Alagesan M., SRM Institute of Science and Technology, India

Chapter 21

Are Panoramic Education Lectures a Distraction? 185

Surendheran Kaliyaperumal, Karunya Institute of Technology, India

Mallika Vijayakumar, Karunya Institute of Technology, India

Siva Rama Krishnan S., VIT University, India

Chapter 22

Social Injustice Tormented the Psyche of Parentless Children: A Study on Toni Morrison's *Jazz*..... 199

Alagesan M., SRM Institute of Science and Technology, India

S. Horizan Prasanna Kumar, SRM Institute of Science and Technology, India

B. Meadows Bose, Mahindra World School, India

Chapter 23

Imagery of Assert and Valor With Reference to Amitav Ghosh's *The Glass Palace*..... 208

B. Arokia Lawrence Vijay, Kumaraguru College of Technology, India

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Chapter 24

One Size Doesn't Fit for All: An Empirical Study of Language Learning Strategies of Rural Learners.....	216
<i>Anto Maria Eusobia, Sacred Heart College (Autonomous), India</i>	

Compilation of References	225
--	------------

About the Contributors	245
-------------------------------------	------------

Index.....	252
-------------------	------------


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Chapter 6

An Experiential Study on the Learners' Perception of E-Learning and Traditional Learning

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ABSTRACT

The teaching-learning process had been confined to the classrooms before technology found its place in the field of education. The classrooms were either student-centred or teacher-centred. The scenario changed slowly and classroom instruction became technology-supported. Today's learners, the digital natives, rely more on technology rather than teachers. The drastic change raised a question whether they need teachers or technology for higher levels of learning and the possible results. In order to find out an answer to this question, a study was conducted among the young engineering graduates belonging to a private technical institution in Vellore district, Tamil Nadu. Surprisingly, the results favoured the traditional mode of teaching in spite of the numerous advantages listed out by the respondents.

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Innovations and Technologies for Soft Skill Development and Learning

Traditional education revolves around the teaching of technical skills, especially within STEM fields. However, soft skills—broadly, communication and intrapersonal skills—are essential within all fields, especially those frequently involving research and collaboration. However, the focus on teaching students to be adept communicators and team members remains woefully underdeveloped.

Innovations and Technologies for Soft Skill Development and Learning is a pivotal reference source that explores the mental and psychological growth of individual learners at different stages of education concerning soft skills and the need for innovation and creativity to lead a successful career. Highlighting topics including higher education, emotional intelligence, and student behavior, this book is ideally designed for educators, curriculum developers, instructional designers, administrators, policymakers, academicians, researchers, and students.

Topics Covered

- Activity-Centered Learning
- E-Learning
- Emotional Intelligence
- Higher Education
- Language Teaching
- Narrow Reading
- Panoramic Education
- Pedagogy
- Secondary Education
- Social Media
- Soft Skills
- Student Behavior


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பொருளடக்கம்

அலகு 1

நாட்டுப்புறவியல் - சொல் விளக்கம் - நாட்டுப்புறவியல் வரலாறு - "Folklore" என்ற சொல் விளக்கம் - நாட்டுப்புறவியல் அறிஞர்கள் கூறும் கருத்துக்கள் - நாட்டுப்புறப் பண்பாடு கோட்பாடு - நாட்டுப்புற இலக்கியத்தின் பண்புகள் - "Folklore" தமிழ்ச் சூழலில் இச்சொல் பயன்படுத்தும் முறைகள் - நாட்டுப்புறவியலின் வகைப்பாடு - நாட்டுப்புறவியலும் அதன் வரலாறும் - இந்திய நாட்டுப்புறவியலும் வரலாறும் - தமிழ்ச் நாட்டுப்புறவியலும் அதன் வரலாறும் - வளர்ச்சி நிலைகளும்.

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அலகு 5

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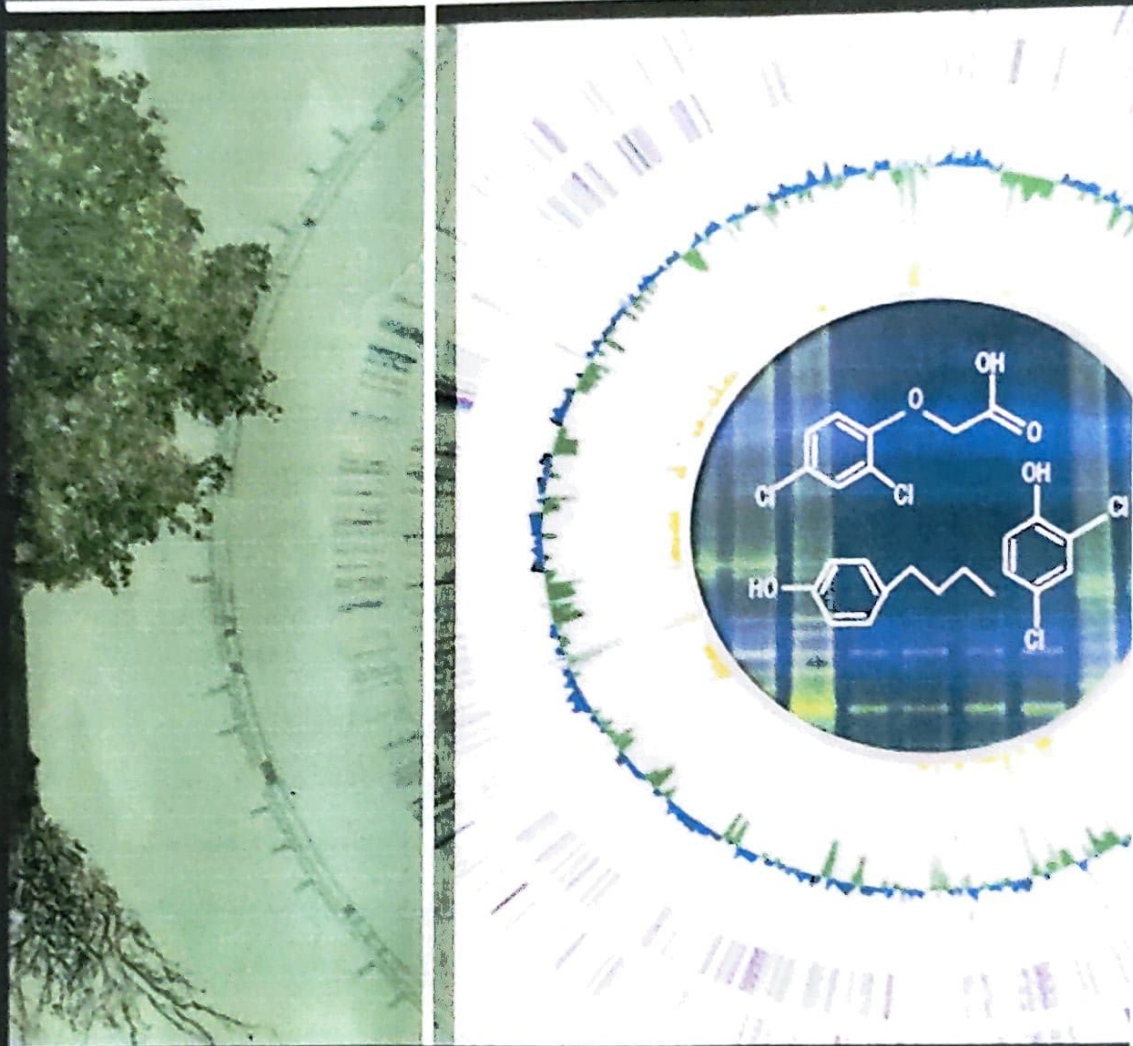
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Microbial Biodegradation of Xenobiotic Compounds



Young-Cheol Chang (ed.)

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Contents

<i>Preface</i>	iii
1. Degradation of Aromatic Compounds and their Conversion into Useful Energy by Bacteria <i>M. Venkateswar Reddy, Rui Onodera, and Young-Cheol Chang</i>	1
2. Bioaugmentation and Biostimulation Remediation Technologies for Heavy Metal Lead Contaminant <i>K. Jayaprakash, M. Govarthan, R. Mythili, T. Selvankumar and Young-Cheol Chang</i>	24
3. Water Bioremediation using Aquatic Plants <i>Maisa 'a Wasif Shammout</i>	37
4. Heavy Metal Bioremediation by Microalgae: Mechanisms and Applications <i>Aniefon A. Ibuot, Sanjay Kumar Gupta, Preeti Ansolia and Amit K. Bajhaiya</i>	57
5. Contaminant Removal and Energy Recovery in Microbial Fuel Cells <i>Soumya Pandit, Kupam Chandrasekhar, Dipak Ashok Jadhav, Makarand Madhao Ghangrekar and Debabrata Das</i>	76
6. Microbial Removal of Dye Stuffs <i>T. Selvankumar, C. Sudhakar and M. Govarthan</i>	95
7. Bioremediation of Organic Xenobiotics from Wastewater: A Review <i>Mayuri Chabukdhara, Sanjay Kumar Gupta, Faiz Ahmad Ansari, Amit K. Bajhaiya and Manish Kumar</i>	111
8. Fungal Laccase Mediated Bioremediation of Xenobiotic Compounds <i>Palanivel Sathishkumar, Feng Long Gu, Fuad Ameen and Thayumanavan Palvannan</i>	135
9. Genes Involved in Microbial Bioremediation <i>K.N. ArulJothi</i>	158
10. Bioremediation of Heavy Hydrocarbons and Polycyclic Aromatic Hydrocarbons: Environmental Implications and Technical Constraints <i>Edmo M. Rodrigues and Marcos R. Tótola</i>	175



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2

Bioaugmentation and Biostimulation Remediation Technologies for Heavy Metal Lead Contaminant

K. Jayaprakash,¹ M. Govarathanan,^{2,3,} R. Mythili,³
T. Selvakumar³ and Young-Cheol Chang²*

INTRODUCTION

Bioremediation is defined as the increase of the rate of the natural metabolic process using microorganisms to alter and break down organic molecules into other substances. According to the United States EPA, bioremediation is defined as treatment that uses naturally occurring organisms to break down hazardous substances into less toxic or non-toxic substances.

Bioremediation is an ecologically advanced technique that employs natural biological activities employing microorganisms, fungi, green plants or their enzymes to return the natural environment altered by contaminants to its original condition. With rapid industrialization all over the world, the pollution rate also increases.

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6

Microbial Removal of Dye Stuffs

T. Selvankumar, C. Sudhakar and M. Govarthanam**

Chemical Nature of Dyes

Dyes can generally be described as colored substances that have an affinity to the substrates to which they are being applied (Pereira and Alves 2012). They absorb light in the visible spectrum (400–700 nm) with at least one chromophore (colour-bearing group). They have a conjugated system, that is, a structure with alternating double and single bonds, and exhibit resonance of electrons, which is a stabilizing force in organic compounds (Hossain 2014).

The components of the dye consist of chromogen, that is, a chemical compound that is either colored or could be made colored by the attachment of a suitable substituent. The chromophore and the auxochrome(s) are also part of the chromogen (Carmen and Daniela 2012). The chromophore is a chemical group that is responsible for the appearance of color in compounds (the chromogen) where it is located (Fig. 1).

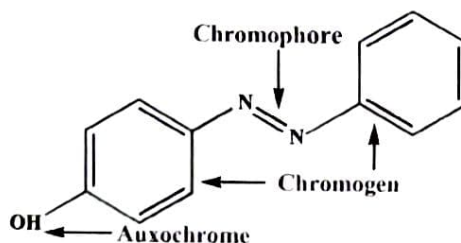


Fig. 1: The components of dye (e.g., 4-Hydroxyazobenzene).

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Index

A

Alkylphenols 7, 8, 15
Anaerobic 229, 233–236, 238
Anodophilic 81
Anoxic 229, 233–238
aquatic plants 37, 38, 41–43, 46, 49–52

B

Bacillus 5–8, 13, 15, 17
Bioaugmentation 24, 25, 28–31
Bioavailability 228, 229, 231, 233, 235, 236, 238
Bio-catalyst 136, 141, 149
biocathode 87, 88
Biodegradation 163–165, 228, 229, 232, 236, 238
Bioremediation 24–26, 28, 29, 31–33, 37, 38, 40–42, 49–52, 57, 58, 59, 62, 66, 68, 69, 78, 81, 82, 135, 140, 141, 147, 152, 175–179, 183, 187–193, 204, 205, 214
Biosorption 159
Biostimulation 24, 25, 28, 31, 32
Biotransformation 159, 165

C

Cupriavidus 4–6, 8, 13, 15, 17

D

Detoxification 136, 141, 144, 149, 152
Dye 95–101, 104–108

E

electroactive bacteria 78
Emerging contaminants 135
Enzymes 106–108, 204, 208, 210–219

F

fecal coliform 43, 44, 50, 51
Fungi 136, 138

G

green technology 38

H

Heavy hydrocarbons 175
Heavy metals 25, 26, 28, 29, 31, 57, 58, 61, 64, 67, 68
Hydrocarbon biodegradation 189, 191

J

Jordan 37, 38, 44, 45–52

L

Laccase 135–152, 171, 172
Lemna sp. 51
Lignin 2, 3, 9

M

Metabolic pathways 176, 179, 182, 187
metagenomic library 205, 206, 208–218
metal accumulation 64
metal resistant genes Bioaccumulation 165, 172
metal tolerance 61
Microalgae 57–62, 64–69, 116, 119, 124, 125
microbial analysis 51
Microbial electro-remediation cells 87

N

Naphthalene 2, 6–8, 13, 15–17
nutrients 38, 39, 42, 43, 47, 49, 51, 52

O

organic pollutants 119, 120, 125
Organophosphates 158, 161

P

Pesticides 135, 149–151
Pharmaceutically active compounds 135
Phytoremediation 116, 120, 122, 126
Pollutants 204, 205, 209–212
Poly cyclic aromatic hydrocarbons (PAHs) 1–3, 7
Poly-3-hydroxybutyrate (PHB) 11
Polyhydroxyalkanoates (PHA) 11



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Chapter 6	Microbial Enzyme: An Effective Replacement of Industrial Catalyst <i>M. Nuruzzaman Khan, Ismat Z. Luna, Taslim Ur Rashid, Khandoker S. Salem, Md. Minhajul Islam, Asaduz Zaman, Sadia Sharmeen, Papiya Haque and Mohammed Mizanur Rahman</i>	147
Chapter 7	Industrial Applications of Microbial Enzymes <i>Kandasamy Selvam, Balakrishnan Senthilkumar, Arumugam Sengottaiyan, Thangasamy Selvankumar, and Muthusamy Govarthanam</i>	183
Chapter 8	Phytases: Potential Biotechnological Applications and Future Challenges <i>Shadia M. Abdel-Aziz, Khalid T. Biobaku, El-Sayed E. Mostafa, Ismail A. Odetokun and Abhinav Aeron</i>	209
Chapter 9	Skin Pigmentation Disorders: Causal Enzyme and Safe Treatment <i>Shadia M. Abdel-Aziz, Hoda A. Hamed, D. Sukmawati and Neelam Garg</i>	235
Chapter 10	Pectinases: Properties and Applications <i>Richa Soni, Kshipra Kapil (née Soni) and N. K. Jain</i>	259
Chapter 11	Naringinase: Applications and Biotechnological Aspects <i>Shadia M. Abdel-Aziz, Khalid T. Biobaku, Ismail A. Odetokun and Abeer N. Shehata</i>	287
Chapter 12	Asparaginase: Applications and Strategies for Acrylamide Reduction <i>Shadia M. Abdel-Aziz, Ram Prasad, Moataza M. Saad and Eman A. Karam</i>	301
Chapter 13	Chitinase as Prognostic Marker: A Major Thrust Area of Research from Medical Aspects <i>Sneha C. Jha and Hasmukh A. Modi</i>	319
Chapter 14	Trichoderma: A Potent Source of Fungal Cell Wall Degrading Enzymes <i>Kandaswamy Saravanakumar, Narayanasamy Rajendran, Aeron Abhinav, Kandasamy Kathiresan and Myeong-Hyeon Wang</i>	339

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INDUSTRIAL APPLICATIONS OF MICROBIAL ENZYMES

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ABSTRACT

Enzymes play a crucial role as metabolic catalysts, leading to their great importance in the development of industrial bioprocesses. Current applications focuses on many different markets including cleaning (detergents), textiles, starch processing, brewing, leather, baking, paper, food products, animal feeds, cosmetics and personal care. The use of enzyme technology is attractive because enzymes are highly efficient to specific, and work under mild conditions. The use of enzymes results in reduce the process time, energy, water, and also improved product quality and potential process integration. The chapter covers the most important applications of microbial enzymes in various industrial processes.

Keywords: biocatalysis, microbial enzymes, applications, industry

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சரியாகப் பயன்படுத்த முடியும்

தாயின் தமிழ்
செயின் குறும்பு
சான்றோரின் கடமை
சந்ததிகளைக் காக்கும் பொறுப்பு
இவனிடம் கடலாய்க் காற்றாய்
தீராமலே இன்னும்...



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❖ தீம் ❖

முயற்சியில் ஈடுபட்டிருக்கிறார் கவிஞர் வெ. விக்கனேஷ். 'தீம்' கவிதைகள் எளிய நடையில் பலரும் புரிந்து கொள்ளும் வகையில் அமைந்திருப்பதைக் காண முடிகிறது. தமிழைப் பற்றி எழுதுகையில்,

“தமிழ் நூலில்
மயிலிறகு வைக்க வேண்டாம்!
காரணம்
தமிழ் எழுத்துக்களே
மயிலிறகுதான்!”

என்கிறார். அவ்வரிசளானது நம் மனதை மயிலிறகு இல்லாமலே வருடுவதை உணர முடிகிறது. 'ஏவுகணை நாயகன்' என்னும் கவிதையில்,

“உன்னை
ஏவுகணை நாயகன்
என்று சினைப்பது
நீ விண்ணில் ஏவுகணையைச்
சிசுலுத்தியதற்காக சில்வ!
இளைஞர்களின் சிநஞ்சங்களில்
நம்பிக்கையைச் சிசுலுத்தியதற்காக!”

என்னும் வரிசளில் நம்பிக்கைப் பூச்சள் பூத்துச் சூலுங்குவதைக் காண முடிகிறது. பாரதி மறையவில்லை. தமிழ் உள்ளவரை பாரதியின் நினைவிருக்கும் என்பதை,

“சூகாயம் பதைவதுமில்லை
உன் நினைவை
உலகம் மறப்பதுமில்லை”

என எளிய தமிழில் அழகாக வடித்துள்ளார். இந்தத் 'தீம்' பல்வேறு சோணாங்சளில் வெளிப்பட்டு வாசசளின் உள்ளங்சளில் பல இனிமையை ஏற்படுத்தும் என்பதில் ஐயமில்லை.

‘உண்மையிலேயே குழந்தையாக இருப்பவர்தான் குருவாக முடியும்’. ‘தொடர்ந்து மாணவர்களின் சம்மதிப்பவர்கள்தான் சிறந்த ஆசிரியர்கள்’ என்கிறார் இறையன்பு. அத்தகையவராய்த் திகழும் வெ. விக்கனேஷ் இன்னும் பல கவிதை நூல்களையும், சாதனைகளையும் படைக்க மனதூர பாராட்டி வாழ்த்துகிறேன்.

■ 14.06.2019

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கட்டவீழ்ப்புகளைப் பொக்கிதம் நீலம்
வெகைக இத்தந் தீழ்க்குள் இருக்கிறது'

- முனைவர் இரா. சுந்தரமூர்த்தி



'நிம் பல் வேறு கோணங்களில்
வெளிப்பட்டு வாசகர்களின் உள்ளங்களில் பல இனிமையை
எற்படுத்தும் என்பதில் ஐயமில்லை'

- முனைவர் சி. வர்க்கனன்

'இவாது முத்தையக் கவிதைத் தொகுப்புகளை ஒப்பீடுகளில்
இந்நூலில் கவிதைகளில் பக்குவம் மிகுதியும் மிளிர்கிறது
முதற்கவிதைவே இவாது சமூக அக்கறைகளைக் காட்டுகிறது
என்றென்றும் பேசப்படுகின்ற விவையாடு உயர்வு - கண்டனக்
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- முனைவர் ச. மகாலிங்கனா



கே. கிராபிக்ஸ்

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12

NOVEL TRENDS AND TECHNIQUES IN LITERATURE AND LANGUAGE RESEARCH

Editors

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Kalippatti (PO) - 637 501, Namakkal (DT)

31. Enjoying In The Digital Era: An Excellent Prospect For Personal Enrichment Y. Ganathomas
Dr. R. Aravindan ... 307
32. Confucian Views On Fine Arts And Human Relations: A Perfect Doctrine For Mankind
S. Mohan Raj, Dr. V. Nanthia ... 315
33. ~~Perception of E-Learning and Traditional Learning~~
Dr. Anu Baisel, Dr. M. Vijayakumar, Prof. P. Sujatha ... 329
34. Negotiation Of Cultural Identities In Chimamanda Ngozi Adichie's *Americanah*
Janice Sandra David, Dr. X. John Paul ... 338
35. Students' Behaviour In The Classroom Environment: A Review
Mr. A. Anbarasu, Dr. m. Bhuvanewari ... 348
36. New Historicist Reading Of Wild Thorns By Sahar Khalifeh
Lakshmi V, Dr S.chitra ... 359
37. Eco-poetics: The Convention Of Ecocriticism And Ecological Activism
S. G. Mohanraj, ... 368
- Women As The Flag Bearer Of Strength And Courage: A Study On Amitav Ghosh's *The Glass Palace*
Dr. B. Arokia Lawrence Vijay ... 377
14. Freedom of Thought," in Wm. Theodore de Bary and Tu Weiming (eds.), *Confucianism and Human Rights*. New York: Columbia University Press. pp. 250.
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39. Application Of Ict Tools: A Source To Enhance Listening Skill
Dinesh P & Dr. J. Karthikeyan ... 387
40. Methods to foster oral proficiency in English in engineering students through innovative classroom teaching
Ms. P. Ravi Matilda, Dr. Sharada Allamneni ... 409
41. A Technology Integrated Analysis Of Educational And Eit Research Process
Shiny K G, Dr. J. Karthikeyan ... 422
42. Transition To A New Instructional Model: Using Listening Activities To Augment Language Acquisition
I.S. John Vijayakumar, Dr. J. Karthikeyan ... 443

PERCEPTION OF E-LEARNING AND TRADITIONAL LEARNING

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ABSTRACT

Teaching-learning process had been confined to the classrooms before technology found its place in the field of education. The classrooms were either student-centred or teacher-centred. But the scenario got changed slowly and classroom instructions became technology-supported. Learners today, the digital natives, rely more on technology rather than teachers. The drastic change raised a question whether they need teachers or technology for higher levels of learning and the possible results. In order to find out an answer to this question, a study was conducted among the young engineering graduates belonging to a private technical institution in Vellore district, Tamil Nadu. Surprisingly, the results favoured the traditional mode of teaching in spite of the numerous advantages listed out by the respondents.

Keywords: E-LEARNING, TRADITIONAL LEARNING, INNOVATIVE TEACHING

INTRODUCTION:

Technology was initially introduced to enhance the quality of learning in distance learning programmes. However, there has

been a tremendous utilization of online resources by learners across the globe. At present, innovative teaching and collaborative learning, interactive teaching and learning and technology enabled learning have become the order of the day. Even though the notion of e-learning has taken a step forward, the learners' enthusiasm for traditional learning has not come down. However, there is an illusion that there is a lack of passion for traditional learning methods among the learners. Therefore, it is the need of the hour to read the minds of the learners and introduce appropriate teaching methodologies. As e-learning is a self-motivated and learner-centred concept, a study has been carried out among the undergraduate students, who have more exposure to technology and e-learning methods than the primary and secondary level learners. The objective of the study is to find out the appropriate learning method and bring it out to the rest of the learners.

METHODOLOGY:

A survey was conducted among the engineering students studying in a private technical institution in Vellore district, Tamil Nadu. Primary data were collected through a random survey across the institution. Since the researcher felt that the participation of respondents from different disciplines would give fruitful results, respondents from almost all the faculties were involved. A questionnaire was prepared and circulated to the respondents. 64 respondents gave their feedback along with a few suggestions. The study focused only on general aspects and it is not subject specific. This may be one of the limitations of the study. If the same study is performed subject-specific aspects, the results may vary.

REVIEW OF LITERATURE:

Numerous studies have been conducted to examine the difference between e-learning and traditional learning experiences. Wong, W. K., & Ng, P. K. have made an

the respondents think that they can be trained well only when they are taught face to face. However, almost equal number of respondents (49%) prefer e-learning. The decision made by the respondents clearly shows that they are unmindful of the mode, medium or the teacher but the passion for the job and the determination about the future drive them towards a suitable learning method. In terms of acquiring knowledge, the mode is chosen by the learner based on the environment and convenience, especially at higher levels of learning. 81% of the respondents say that e-learning saves their time. They are of the opinion that the time spent on commuting to the institution can be spent on learning purposes. Hence, they prefer e-learning.

The validity or worthiness of the certificate depends on the mode with which it is acquired. The certificate acquired after attending traditional learning classes is considered more valuable than the e-learning certificate especially, in job interviews. 86% of the respondents insist on the same and their view about the e-learning certificate is, it is easy to acquire and the credibility (of the person who did the course) is prone to suspicion. While talking about the thorough learning or flawless learning, 80% of the respondents say that it happens only in traditional learning because the teacher is there to clear everything, but in e-learning, most of the websites provide coded answers to the possible expected questions from the learners. Those answers may be appropriate but the learners may not be comfortable with them. In terms of affordability, many respondents (57%) favour e-learning as it is cheaper than traditional learning. A teacher can address only a limited number of learners in a classroom but in e-learning, number doesn't matter as anyone can view the lecture virtually and retrieve it at his convenience.

Reading has become obsolete nowadays. If any assignment is given, most of the learners, instead of referring to books, surf the net sources and complete the assignment.

investigation in 2016 and revealed that the results favoured e-learning as it is less expensive and more comfortable. Another study undertaken by AL-Omari and Salemeih in 2012 conveys that traditional learning lacks flexibility and affects the scores of the learners whereas e-learning enhances both the scores and skills of the learners. Setbough (2012) states, in his argument, that traditional learning is better than online learning as it lacks personal interaction with the teacher. Vaona et al. (2018) have discussed that e-learning is learner-friendly and it makes room for personalized instructions so that the learners can adjust the duration of the course and contents depending on their needs. Sarrah M, et al. (2014) opine that feedback on the lecture is imminent in traditional learning methods whereas in e-learning feedback is a pre-defined activity taking place at the programme designer's need and convenience. In traditional learning, the teacher's preparation for the class and delivery of the lecture are limited, and in e-learning, the materials and resources are unlimited (Kondon 2013). In all these studies, the results and arguments are not one-sided. Some studies support e-learning and some others favour traditional learning.

RESULTS & DISCUSSION:

With regard to the question related to the attention paid to the lectures, 69% of the respondents have replied that their attention is more only on the traditional learning methods. As the teacher addresses the learners face to face, there is less possibility of diverting the attention whereas in e-learning, the possibility of diversion is more. Equal number of respondents further feels that the distraction features (friends and peers) are less effective in traditional learning than in e-learning (movies, games, advertisements). While responding to the question about knowledge acquisition, the respondents are equally divided in their opinion. 51% of the respondents favour e-learning and 49% favour traditional learning. At the same time, the ratio is vice-versa when asked about career orientation. 51% of

Their choice of listening to a lecture favours traditional learning whereas reading relies on the internet. According to the statistics acquired, 65% of the respondents prefer to look for e-resources. Learning should develop one's critical thinking too. 70% of the respondents affirm that the traditional classrooms are the suitable places to improve the learners' critical thinking skill. When the respondents were asked about one specific skill that they acquired through traditional learning, 27% of the respondents felt that they were able to develop their communication skill and 25% of them said that there existed a healthy competition among the classmates and peers. Simultaneously, for the question about e-learning, exactly the same number of respondents answered that they learnt about time management and independent learning respectively. By and large, both the learning methods have advantages one over the other.

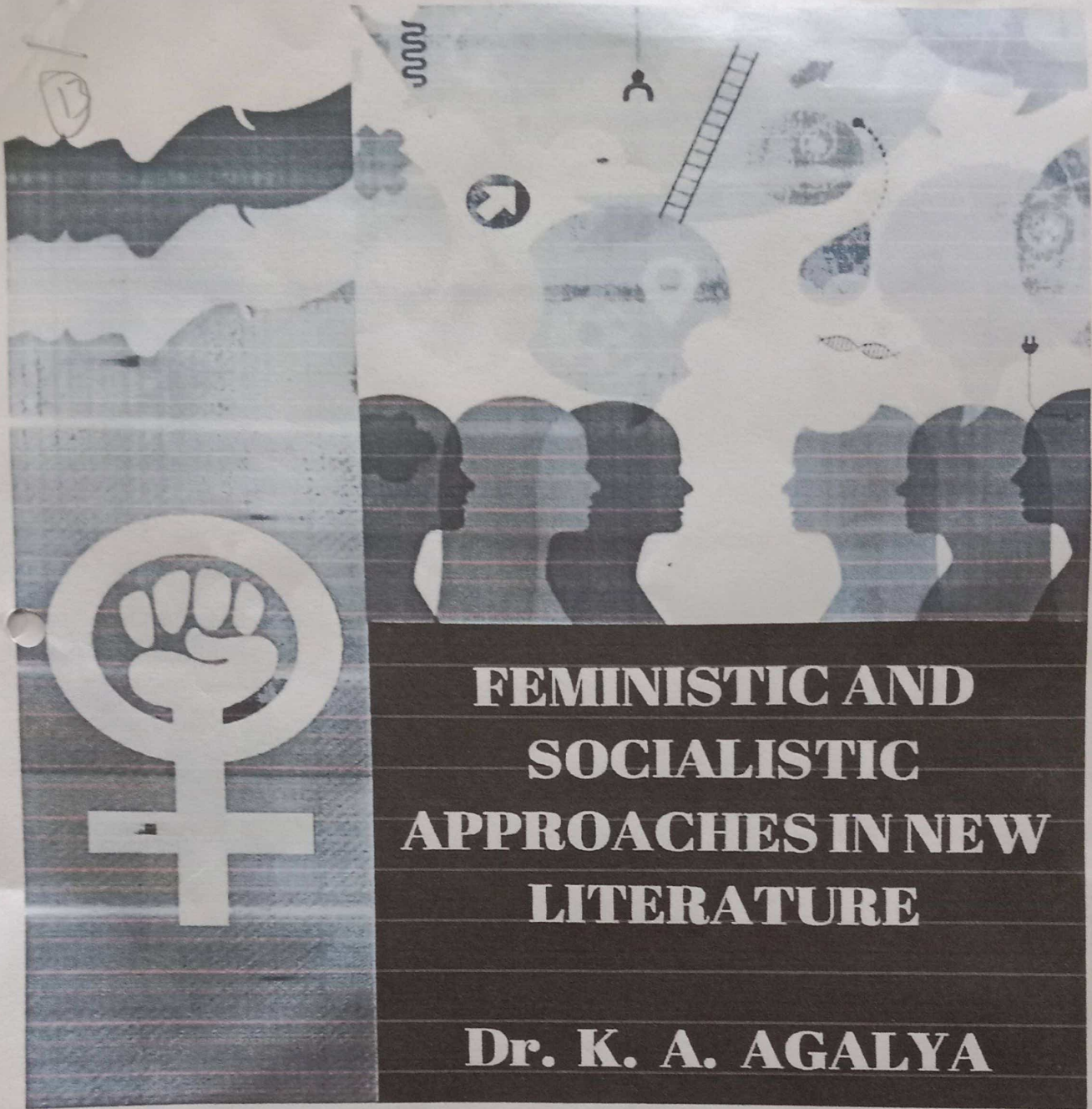
FINDINGS:

1. E-learning is cost-effective and flexible.
2. The lecture can be watched as many times as possible in e-learning.
3. Time management and independent learning are the benefits of e-learning.
4. Distraction is unavoidable in e-learning.
5. Certificate acquired through e-learning seems to have less weightage.
6. E-learning can be advocated to higher levels of learning or to the self-motivated learners.
7. Attention span is the maximum in traditional learning.
8. Collaborative learning environment is provided in traditional learning.
9. Face-to-face interaction is a ready reckoner for most of


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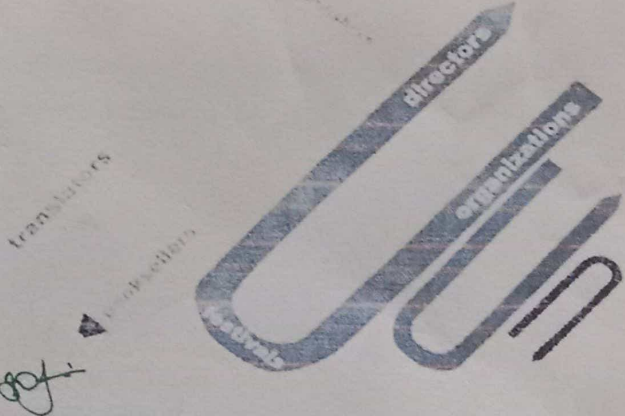
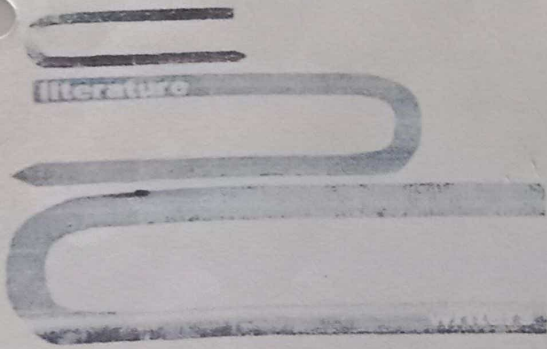
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**FEMINISTIC AND
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LITERATURE**

Dr. K. A. AGALYA



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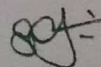
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S.No	CONTENTS	Page No
1	RESUSCITATION OF RELATIONSHIP IN ANITA NAIR'S LESSONS IN FORGETTING - Dr. K.A.Agalya	4
2	THE QUEST UPON A DALIT'S LIFE: BASED ON DOWNTRODDEN LIVES IN OM PRAKASH VALMIKI'S JOOTHAN - Hildegard Anne Marla	8
3	THE CHANGING FACES OF THE SUBALTERN HERO AND SHERO: A CASE STUDY OF THE MOVIES PARIYERUM PERUMAL AND ARUVI - Chitra V R	12
4	PATRIARCHY IN NAGAMANDALA - Esther Jayakumar	17
5	DARK AND LIGHT SIDES IN ARAVIND ADIGA'S THE WHITE TIGER - M.Indupriya, S.Kasturi K.Dayanithi	23
6	REDEFINING IDEOLOGIES: A STUDY BASED ON ALIGARH - Jenita Elizabeth George	28
7	IDENTIFYING THE MARGINALIZED: A GAZE IN TO AN EXCEPTIONAL TEMPLE FESTIVAL IN KERALA - Maria John Paul	32
8	SUFFERINGS AND SECRET LONGINGS IN GIRISH KARNAD'S NAGAMANDALA - S.Meenachi	37
9	RESIGNATION FROM PRESENT AND HOPE FOR FUTURE: SOCIAL REDEMPTION THEMES IN KAJAL AHMAD'S SELECT POEMS - Priyadharsini R	39
10	ORDER AND DISABILITY OF SURVIVAL IN V.S.NAIPAUL'S A BEND IN THE RIVER - S.Kalpana	44
11	FEMINISTIC APPROACH IN ANITA NAIR'S LADIES COUPE - T. Mythili	47
12	INCIDENTAL TRAUMA INTRUDES LOSS IN RELATIONSHIP - A SOCIAL IN MEDIA ENTERTAINMENT - B.Ubaneshwaren, Dr. J.Deenathayulan,	51
13	SALIENT PARTICIPATION OF TRANSLATION IN MODERN INDIA - P.Rajkumar	55
14	A STUDY ON NARRATIVE STRATEGIES IN CHETAN BHAGAT'S SELECTED NOVELS J.Prince Sam Paul	58
15	THE QUEST FOR IDENTITY IN BHARATHI MUKHERJEE'S JASMINE - P.Sujatha	62
16	SOCIAL, ECONOMICAL AND CULTURAL OBSTACLES PORTRAYED IN CHETAN BHAGAT'S THE THREE MISTAKES OF MY LIFE -B.Madhuri	66
17	THE EXPEDITION OF SELF DETECTION IN ANCIENT PROMISES - S.Prabhakaran	70
18	SUBJUGATION OF THE SUBALTERN IN ARUNDATHI ROY'S THE GOD	73

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1


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THE QUEST FOR IDENTITY IN BHARATHI MUKHERJEE'S *JASMINE*

P.Sujatha, Asst Prof of English, Mahendra Arts and Science College, Namakkal

In Indian English Literature there are 3 main themes, man in relation to nature, man in relation to men and man in relation to God. Novels played a very important role in the 20th century. The Women Writers are Antia Desai, Antia Nair, Shashi Deshapande, Manju Kapur, Bharathi Mukherjee and Jhuma Lahiri

Bharathi Mukherjee was born on July 27, 1940 in Calcutta, India. In 1947 she moved to Britain with her family at the age of eight and lived in Europe for about three and a half years before returning to India. After getting her B.A from the University of Calcutta in 1959 and her M.A in English and Ancient Indian culture from the university of Baroda in 1961. She came to the united state she got awarded a scholarship from the university of Iowa, she earned her M.F.A (Master of Fine Arts) in Creative Writing in 1963 and her PhD in English and Comparative Literature in 1969. While studying at the university of Iowa, she met and married a Canadian student from Harvard, Clark Blaise. She has produced two books with her husband, as well as numerous books, essays and short stories of her own.

In 1988 She won the National Book Critics Award for *The Middleman and other stories*. Mukherjee's career as a professor and her marriage to Blaise Clark has given her opportunities to teach all over the United States and Canada. Currently she is a professor at the university of California, Berkeley.

Her novels are *The Tiger Daughter*(1971), *Wife*(1975), *Jasmine*(1989), *The Holder of the World*(1993), *Leave It to Me*(1997), *Desirable Daughters*(2002) and *The Tree Bride*(2004). Her Short Story collections are *Darkness*(1985), *The Middleman and other stories*(1988) and *A Father*. Her Non-Fictions are *The Sorrow and the Terror: The Haunting Legacy of the Air India Tragedy* (1987, with Clark Blaise), *Political Culture and Leadership in India* (1991), *Regionalism in India Perspective* (1992).

Bharathi Mukherjee deals with the Phenomenon of Quest for Identity, her emphasis being on her female characters, their Psychological trauma and their final emergence as self assertive individuals free from the bondage imposed by relationships of the past. Mukherjee excels in depicting cross cultural and psychic consequences of search for self identity. Her heroines endeavor for self realization and finally take control over their destinies. In this novel, Jasmine is the female protagonist of Mukherjee, pass through tortuous physical, mental and emotional agony, which effects their entire personality largely turning them into a whole new being. In a patriarchal society, women find themselves in shackles of oppression and suppression women can only dream of liberation of their male counterparts consider them importance in uplifting the

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62

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Contents

SEMESTER - I

UNIT - I

PROSE

01. TWO GENTLE MAN OF VERONA - A.J.CRONIN..... 01
02. MY LOST DOLLAR - STEPHEN LEACOCK 11
03. A DEED OF BRAVERY - JIM CORBETT 16

UNIT - II

POETRY

04. THE ROAD NOT TAKEN - ROBERT FROST..... 26
05. ALL THE WORLD'S STAGE - WILLIAM SHAKESPEARE..... 29
06. THE LAMB - WILLIAM BLAKE 32

UNIT - III

SHORT STORY

07. THE HAPPY PRINCE - OSCAR WILDE 35
08. THE GIFT OF THE MAGI - O.HENRY 49
09. THE UMBERLLA MAN - ROALD DAHL 59

UNIT - IV

GRAMMAR

10. (i) PARTS OF SPEECH..... 69
(ii) ARTICLES 81
11. TENSES 84
12. KINDS OF SENTENCES 95

UNIT - V

COMPOSITION

13. E-MAIL WRITING 98
14. FILM REVIEW 103
15. PARAGRAPH WRITING 107


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பொருளடக்கம்

அலகு - 1

சமய இலக்கியங்கள் சைவமும் வைணவமும்

1.	தேவாரம் - திருநாவுக்கரசர் - திருவதிகை வீரட்டானம்	1
2.	திருமந்திரம் - திருமூலர் 5 பாடல்கள் மட்டும் (1. ஒன்றே குலமும் ... 2. யான் பெற்ற ... 3. உடம்பார் அழியின் ... 4. ஒன்றே கண்டேன் ... 4. ஊரெல்லாம் கூடி ஒலிக்க ...)	7
3.	நாலாயிரத்திவ்யபிரபந்தம் - தொண்டரடிப்பொடியாழ்வார் (முதல் 5 பாடல்கள் மட்டும்)	11
4.	பெரியாழ்வார் திருமொழி - நற்றாய் புலம்பல் (1 - 11 பாடல்கள் மட்டும்)	16

அலகு - 2

பிற சமயங்கள்

1.	திருவருட்பா பெறாப்பேறு - ஆவா என்றனை (5 பாடல்கள்)	22
2.	இயேசு காவியம் உவமை வழிச் செய்தி - கடலோரம் ஒரு நாள்	27
3.	ஞானபாரதி வலம்புரிஜான் நாயகம் எங்கள் தாயகம் (இளைஞரானார் இனியவர் முகம்மது - வேறுபட்டார் முகம்மது)	34
4.	சிவவாக்கியர் 5 பாடல்கள் (35 கோவிலாவது ஏதடா ... 36 செங்கலும் கருங்கலும் ... 37 பூசை பூசை என்று நீர் ... 38 இருக்க நாலு வேதமும் ... 39 கலத்தில் வார்த்து வைத்த ...)	40
5.	கடுவெளிச்சித்தர் 2 பாடல்கள் (5 நந்தவனத்திலோர் ... 26 வைதோரைக் கூட வையாதே ...)	44
6.	பட்டினத்தார் 2 பாடல்கள் (112 வாளால் மகவரிந்து ... 159 பேய் போல் ...)	48



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அலகு - 3
பிற்கால நீதி இலக்கியங்கள்

1.	நன்னெறி - 4, 5, 8, 19, 24 (5 பாடல்கள்)	53
2.	மூதுரை - (முதல் 5 பாடல்கள்)	57
3.	நல்வழி - 1, 2, 5, 10, 22 (5 பாடல்கள்)	60
4.	நீதிநெறிவிளக்கம் - 2, 14, 53, 56, 100 (5 பாடல்கள்)	64
5.	அறநெறிச்சாரம் - 1, 20, 56, 66, 69 (5 பாடல்கள்)	67

அலகு - 4
இலக்கிய வரலாறு

1.	பன்னிரு திருமுறைகள்	71
2.	பன்னிரு ஆழ்வார்கள்	77
3.	கிறித்துவ சமயத்தின் தமிழ்ப்பணி	83
4.	இஸ்லாமிய சமயத்தின் தமிழ்ப்பணி	86

அலகு - 5
மொழித்திறன்

1.	பகுபத உறுப்பிலக்கணம்	89
2.	ஆகுபெயர்	94
3.	நேர்காணல்	98
4.	விண்ணப்பம், அலுவலகக் கடிதம் எழுதுதல்	104



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